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# Kennedy/Jenks/Chilton

PRELIMINARY ASSESSMENT REPORT  
FORMER UNDERGROUND SOLVENT  
STORAGE TANK SITE  
PACIFIC AIRMOTIVE CORPORATION  
BURBANK, CALIFORNIA

30 SEPTEMBER 1988

(K/J/C 882504.00)

**1105**

**PRELIMINARY ASSESSMENT REPORT  
FORMER UNDERGROUND SOLVENT  
STORAGE TANK SITE  
PACIFIC AIRMOTIVE CORPORATION  
BURBANK, CALIFORNIA**

**30 SEPTEMBER 1988**

**(K/J/C 882504.00)**

**Prepared by:**

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# Kennedy/Jenks/Chilton

Consulting Engineers

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916-362-3251

30 September 1988

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Mr. Eugene Fox  
Vice President, General Manager  
Pacific Airmotive Corporation  
2940 North Hollywood Way  
Burbank, CA 91550-1095

Subject: Preliminary Assessment Report  
Former Underground Solvent  
Storage Tank Site  
Burbank, California  
(K/J/C 882504.00)

Dear Mr. Fox:

In accordance with our letter agreement of 29 July 1988, two soil borings have been drilled in the vicinity of three former underground solvent storage tanks and two sumps have been inspected at the Pacific Airmotive Corporation (PAC) facility in Burbank, California. This letter report summarizes findings from the analysis of soil samples obtained from the borings and from our visual inspection of the sumps. Logs of the borings are presented in Attachment A. Copies of the laboratory reports for soil sample analyses are presented in Attachment B. Included in Attachment C are copies of gas chromatograph scans obtained from analyses for Total Petroleum Hydrocarbons (TPH).

## BACKGROUND

PAC services jet engines for the aviation industry at its Burbank facility. As you informed us, Stoddard Solvent, a petroleum distillate, is utilized as part of operations for steam cleaning engine parts at Building No. 2. Both product and waste Stoddard Solvent were reportedly stored in three underground tanks behind building No. 2. These tanks were removed prior to December of 1981, as you also reported. Two of the three tanks had a nominal capacity of 1,500 gallons and the third tank had a reported nominal capacity of 300 gallons. Figure 1 shows the approximate locations of the former underground solvent storage tanks.

On 12 July 1988, Mr. Noel Lerner of Kennedy/Jenks/Chilton (K/J/C) met with you and Mr. David Bacharowski of the Los Angeles Regional Water Quality Control Board (RWQCB) to discuss findings of the Preliminary Site Assessment Report for Drum Storage Areas dated 16 May 1988 (K/J/C 882504.00). Because these tanks were removed prior to the adoption of underground tank regulations, no

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soil samples were collected during their removal. To determine whether the three tanks may have leaked solvents to the surrounding soils, PAC agreed to the RWQCB's request to investigate soils in the area previously occupied by the tanks.

Another topic discussed during the 12 July 1988 meeting related to the U.S. Environmental Protection Agency's (EPA) program evaluating possible sources of solvents that have been detected in groundwater in the San Fernando Valley. EPA is focusing their attention on underground tanks and industrial sumps. At Mr. Bacharowski's request, PAC agreed to submit to the RWQCB results of periodic inspections of two of the four sumps located at their facility. The two other sumps were inspected as part of the current investigation.

#### HYDROGEOLOGY

As described in Groundwater Monitoring Program for Pacific Airmotive Corporation Jet Fuel (K/J/C 872505.01) dated 30 July 1987, Pacific Airmotive Corporation is located near the center of the east margin of the San Fernando Basin, where the Basin adjoins the Verdugo Mountains. The Basin drains southeast from the facility site through the Los Angeles River Narrows. The gently sloped ground surface directs runoff southeasterly into the Burbank Western Channel which is a tributary to the Los Angeles River.

A previous site assessment was performed by Kennedy/Jenks/Chilton at PAC's nearby jet engine test facility (Groundwater Monitoring Program for Pacific Airmotive Corporation Jet Fuel Site [K/J/C 872505.01], dated 30 July 1987). As part of this previous investigation, two monitoring wells were drilled to depths of approximately 215 feet below ground surface. These monitoring wells are located within approximately 1,500 feet of above-ground drum storage areas. During drilling of the monitoring wells, groundwater was first encountered at depths of 209 feet and 211 feet. Groundwater stabilized after well development at depths of 203 feet and 204 feet below the ground surface.

During drilling of the monitoring wells, crudely stratified, unconsolidated older alluvial units of late Pleistocene geologic age were encountered. These units consist primarily of pervious light brown, brown, and gray sandy gravels and gravelly sands, but also contain less permeable red and brown silty sands. Bedding is assumed to be approximately horizontal, although this was not directly observed.

The soils encountered in the two soil borings during the investigation of the former underground solvent storage tanks are similar in composition to the soils encountered during drilling of the jet engine test facility monitoring wells. They are also similar to soils encountered in the 10 soil borings drilled at the various drum storage areas of the facility (refer to Preliminary Assessment Report for Drum Storage Areas dated 16 May 1988 [K/J/C 882504.00]).

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### FIELD INVESTIGATION

Field work was conducted by Kennedy/Jenks/Chilton on 16 August 1988. This work included drilling and sampling two soil borings in the vicinity of the former underground solvent storage tanks and the visual inspection of two facility sumps. The approximate locations of the two borings and the two sumps are shown on Figures 2 and 3.

#### Soil Sampling

During drilling and sampling, a log of the soils encountered was prepared by a Kennedy/Jenks/Chilton geologist. Undisturbed soil samples recovered during drilling were lithologically described and were classified according to the Unified Soil Classification System (USCS). The boring logs are included in Attachment A to this report.

The two soil borings were drilled in the vicinity of the three former underground solvent storage tanks near Building No. 2. The former locations of the tanks were inferred from asphalt patches covering the area where they were reportedly located.

The borings were drilled to depths ranging from 40 to 50 feet utilizing a truck-mounted drilling rig (Mobile Drill B-80) equipped with 8-inch diameter hollow stem augers. Undisturbed soil samples were obtained using a California modified split spoon sampler with 2.5-inch diameter by 3-inch long stainless steel liners placed inside the sampling tube. The sampler was driven 18 inches into the soil ahead of the auger using a standard 140-pound free falling hammer. Blow counts were recorded for every 6 inches driven and are indicated on the boring logs. Soils were backfilled with approximately a 3/1 mixture of Monterey sand and bentonite clay.

Undisturbed soil samples were collected at approximately 5-foot intervals. Samples were collected from each boring beginning at 7.5 feet below the ground surface and ending 42 feet and 50 feet below ground surface for borings B-11 and B-12, respectively. Soil boring B-12 was drilled beyond 40 feet due to the presence of organic vapors detected during field monitoring of the collected soil samples. Drilling terminated at the 50-foot depth due to the low (2 to 3 ppm as methane equivalent) concentrations of organic vapors detected in the headspace above the soil samples collected from depths of 45 and 50 feet. Organic vapor monitoring procedures are described later in this section.

Soil samples were collected and preserved by covering both ends of the samples with Teflon sheets which were held in place by plastic caps during shipping. A label was attached to each tube to indicate the site name, date, initials of collector, boring number, sample number, and sample depth. Samples were kept

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chilled in an ice chest for preservation purposes prior to and during transportation of the samples. A chain-of-custody form was completed and included with the samples during shipment to the Kennedy/Jenks/Chilton Laboratory Division in San Francisco.

The auger flights were steam cleaned before drilling and again between each boring. The split spoon sampler was cleaned and rinsed with soap and water and again rinsed with deionized water between each subsequent use to reduce the possibility of cross-contamination.

Soil samples were monitored in the field for the presence of organic vapors using a Foxboro Organic Vapor Analyzer Model 128 (OVA). Sampling was performed by extruding soil from one of the sample tubes into a glass container. After disaggregating the material, the container was covered and placed in a warm area to promote volatilization. After approximately 15 minutes, the concentration of organic vapors present in the container headspace was measured with the OVA. The OVA measurements are reported on the boring logs as volumetric parts per million (ppm), methane equivalent.

#### Sump Investigation

On 16 August 1988, Mr. David Bacharowski of the RWQCB met with representatives from PAC and Kennedy/Jenks/Chilton to visually inspect two sumps located at the PAC facility. These sumps, shown on Figure 3, were:

- o A stainless steel-lined sump located inside the chemical room of Building No. 2.
- o A boiler and cooling tower blowdown sump located west of Building No. 2.

In 1983, an approximately 4-inch thick concrete sump was installed in the chemical room of Building No. 2. This sump was retrofitted with a stainless steel lining later in 1983. This sump is used for collection of spilled calibration fluid. Reportedly, this fluid is Union Chemical No. MIL-C-7024 See msos in file Stoddard Solvent and is used for the testing of equipment gauges by PAC. According to PAC personnel, the calibration fluid was originally piped from the test areas in Building No. 2 to an underground storage tank located east of Building No. 2. This tank was removed prior to December 1981 and is one of the three former underground solvent storage tanks investigated in this report.

For the visual inspection, the stainless steel <sup>liner</sup> lin was removed and the concrete lined sump was cleaned to expose the concrete surfaces. There were no apparent cracks in the sump; however, a wood flooring installed to adjust the

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\* fit of the liner was present, prohibiting an inspection of the base of the sump. During the inspection, there was no evidence of leakage from the liner as no staining was noted on the wooden flooring.

The approximately 4-inch thick lined concrete sump located west of Building No. 2 was installed in 1983. This sump is used primarily for the collection of effluent from the boiler and cooling tower blowdown. However, it is also used to collect the discharge from the steam cleaning area. During the visual inspection of the sump, several small cracks were noted in the concrete at ground surface and also at approximately 2-feet above the base of the sump near the apparent high water level mark. However, no major cracks were observed at the base of the sump.

The facility has two additional industrial wastewater collection sumps (clarifiers) but, as agreed during Mr. Bacharowski's 16 August visit, they were not inspected. These clarifiers are located northeast of Building No. 2 and east of Test Cell No. 2 (refer to Figure 4 and 5). They are sampled and chemically analyzed on a quarterly basis per EPA requirements for permitted RCRA facilities. As PAC agreed during the 16 August 1988 meeting, the results of these samples will be forwarded by PAC to the RWQCB on a routine basis.

#### RESULTS OF LABORATORY ANALYSES

Selected soil samples from the two borings drilled within the former underground tank excavation were analyzed for volatile organic compounds (VOCs) and Total Petroleum Hydrocarbons (TPH). The laboratory analyses reports are included in Attachment B of this report. A summary of the analytical methods used in the laboratory are presented below:

- ✓ o Volatile Organic Compounds (VOCs) - determined by EPA Method 8240 utilizing gas chromatography/mass spectroscopy (GC/MS).
- ✓ o Total Petroleum Hydrocarbons (TPH) - pentane extract analyzed by gas chromatography scan utilizing a flame ionization detector (GC/FID) and commercial hydrocarbon samples as standards.

As described in the investigation work plan, analyses were selected on the basis of the chemicals reportedly stored in the former underground solvent storage tanks. Although chlorinated hydrocarbons are not constituents of Stoddard Solvent (the primary solvent stored in the tanks), they were included in the analytical program because chlorinated solvents may have been mixed with waste Stoddard Solvent during the cleaning of engine parts. Table 1 summarizes the laboratory analyses results for each boring investigated and is included in the discussions presented below. When available, relevant criteria or calculated soil threshold levels are included in these tables.

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Soil threshold levels are recommended by regulatory agencies as acceptable limits of chemical concentrations in soil. Presently, there are no soil threshold levels established for VOCs. To determine acceptable soil threshold levels for VOCs, Drinking Water Action Levels recommended by the State of California Department of Health Services (DHS) for individual chemicals (Region 9 EPA Drinking Water Standards and Health Advisory Table, September 1987) were multiplied by an attenuation factor of 1,000. Attenuation factors of 100- to 1,000-fold have been adopted by the EPA to develop federal regulations pursuant to RCRA (background documents for RCRA, Subtitle C, Section 3001) and by the DHS to develop hazardous waste management criteria ("Final Statement of Reasons for Proposed Regulations", Appendix III, Criteria for Identification of Hazardous and Extremely Hazardous Wastes).

Petroleum hydrocarbons (including Stoddard Solvent) were not detected in any of the soil samples analyzed. Toluene was detected in all soil samples analyzed for VOCs, and concentrations appear to decrease with depth. Concentrations detected in the shallowest samples collected (7.5 feet below ground surface) ranged from 0.057 mg/Kg to 0.033 mg/Kg, while concentrations in the deepest samples at depths of 42 to 50 feet ranged from 0.007 mg/Kg to 0.020 mg/Kg. The highest concentration of toluene detected was 0.095 g/Kg. This concentration was noted in sample B12-2 taken from a depth of 12 feet below ground surface.

at the approximate base of tanks Tetrachloroethylene (PCE) and trichloroethylene (TCE) were also detected in soil samples analyzed for VOCs. Concentrations of PCE were only detected in the 7.5-foot to 12-foot depth interval below ground surface and ranged from 0.380 mg/Kg to 0.012 mg/Kg. TCE was detected at a concentration of 0.011 mg/Kg in one sample (sample B12-2) taken from a depth of 12 feet below ground surface.

#### FINDINGS AND RECOMMENDATIONS

##### Underground Tank Site

Toluene, PCE, and TCE were the only chemicals detected in soil samples analyzed from the former underground solvent storage tank area. Toluene was detected in soil samples analyzed to a depth of 50 feet. Concentrations ranged from 0.095 mg/Kg at a depth of 12 feet to 0.007 mg/Kg at a depth of 50 feet. PCE was detected in the two shallowest soil samples from each boring at concentrations of 0.380 mg/Kg to 0.012 mg/kg, but was not detected in samples deeper than 12 feet below ground surface. TCE was detected in only one sample. This concentration was 0.011 mg/Kg in soil sample B12-2 taken from a depth of 12 feet below ground surface. Concentrations of toluene, PCE, and TCE detected are below the calculated soil threshold level of 100 mg/Kg, 4 mg/Kg, and 5 mg/Kg, respectively.

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On the basis of the results of the soil samples analyzed, it is unlikely that a significant leakage of chemicals occurred from the three underground storage tanks. The concentrations of chemicals detected in the soil samples are below calculated soil threshold levels. Given the depth to groundwater of approximately 200 feet, these chemicals do not appear to present a potential for significant impact to groundwater quality. Thus, remediation of these soils does not appear warranted. However, it is recommended that the asphalt pavement be maintained over the area to reduce infiltration of surface runoff.

*Agree*  
Sumps \* [Lockheed has installed 3 g.w. monitoring wells within 20 feet of the u.g. tanks. G.w. data from wells screened in uppermost zone to be obtained and evaluated for presence of Toluene etc.] As there were no visible indications of deterioration of the stainless steel liner or cracks evident in the exposed portion of the chemical room sump in Building No. 2, no remedial actions appear warranted at this time.

\* Cracks noticed in the boiler and cooling tower blowdown sump near Building No. 2 should be repaired. It is recommended that this sump also be fitted with a stainless steel liner to provide secondary containment. If wooden shims are necessary to fit the liner, they should be installed to allow visible inspection of the base of the sump.

*Agree*  
Both of these sumps should be inspected on a quarterly basis at the same time the clarifiers are inspected to comply with the facility's RCRA permit requirements. The next quarterly reports containing the results of clarifier inspections should be forwarded to the RWQCB as well as the EPA. The RWQCB staff should also be informed prior to the next inspection so they may observe the inspection.

If you have any questions about our report, please do not hesitate to call us.

Very truly yours,

KENNEDY/JENKS/CHILTON

*Noel M. Lerner*

Noel M. Lerner, P.E.  
Project Manager

NML:ap

Enclosures: Table 1

Figures 1, 2, 3, 4 and 5  
Attachments - A, B, and C

cc: Mr. David Bacharowski - RWQCB, Los Angeles Region

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TABLE 1

SUMMARY OF CHEMICAL ANALYSES OF SOIL SAMPLES  
FORMER UNDERGROUND SOLVENT STORAGE TANK SITE  
PACIFIC AIRMOTIVE CORPORATION  
BURBANK, CALIFORNIA  
(K/J/C 882504.00)

Kennedy/Jenks/Chilton

SAMPLE NO. <sup>a</sup>	DEPTH BELOW GROUND SURFACE (feet)	CHEMICAL CONCENTRATION (mg/Kg)					
		Petroleum Hydrocarbons <sup>b</sup>			VOCs <sup>c</sup>		
		as gasoline	as diesel fuel	as Stoddard Solvent	toluene	PCE	TCE
B11-1	7.5	<1	<1.7	<2	0.057	<0.180	<0.005
B11-2	10	<1	<1.7	<2	0.012	<0.012	<0.005
B11-3	20	<1	<1.7	<2	0.009	<0.005	<0.005
B11-4	30	<1	<1.7	<2	0.018	<0.005	<0.005
B11-5	42	<1	<1.7	<2	0.012	<0.005	<0.005
B12-1	7.5	<1	<1.7	<2	0.033	0.012	<0.005
B12-2	12	<1	<1.7	<2	0.095	>0.380	<0.011
B12-3	20	<1	<1.7	<2	0.007	<0.005	<0.005
B12-4	32	<1	<1.7	<2	0.016	<0.005	<0.005
B12-5	40	<1	<1.7	<2	0.018	<0.005	<0.005
B12-6	45	<1	<1.7	<2	0.020	<0.005	<0.005
B12-7	50	<1	<1.7	<2	0.007	<0.005	<0.005
Soil Threshold Levels	100 to 10,000d	NA	NA	100e	4e	5e	

a. Refer to Figure 2 for location of soil borings.

b. Laboratory analysis of pentane extract by gas chromatography scan with flame ionization detection using commercial hydrocarbon samples as comparison standards.

c. VOCs (Volatile Organic Compounds) detected by EPA Method 8240 for purgeable organics by gas chromatography/mass spectroscopy (GC/MS).

d. Levels cited in State Water Resources Control Board Leaking Underground Fuel Tank Field Manual, May 1988.

e. Calculated soil threshold level based on multiplying Drinking Water Action Levels recommended by the Department of Health Services by a factor of 1,000. Drinking Water Action Levels are reported in EPA Region IX Drinking Water Standards and Health Advisory Table dated 21 September 1987.

NA - Not available

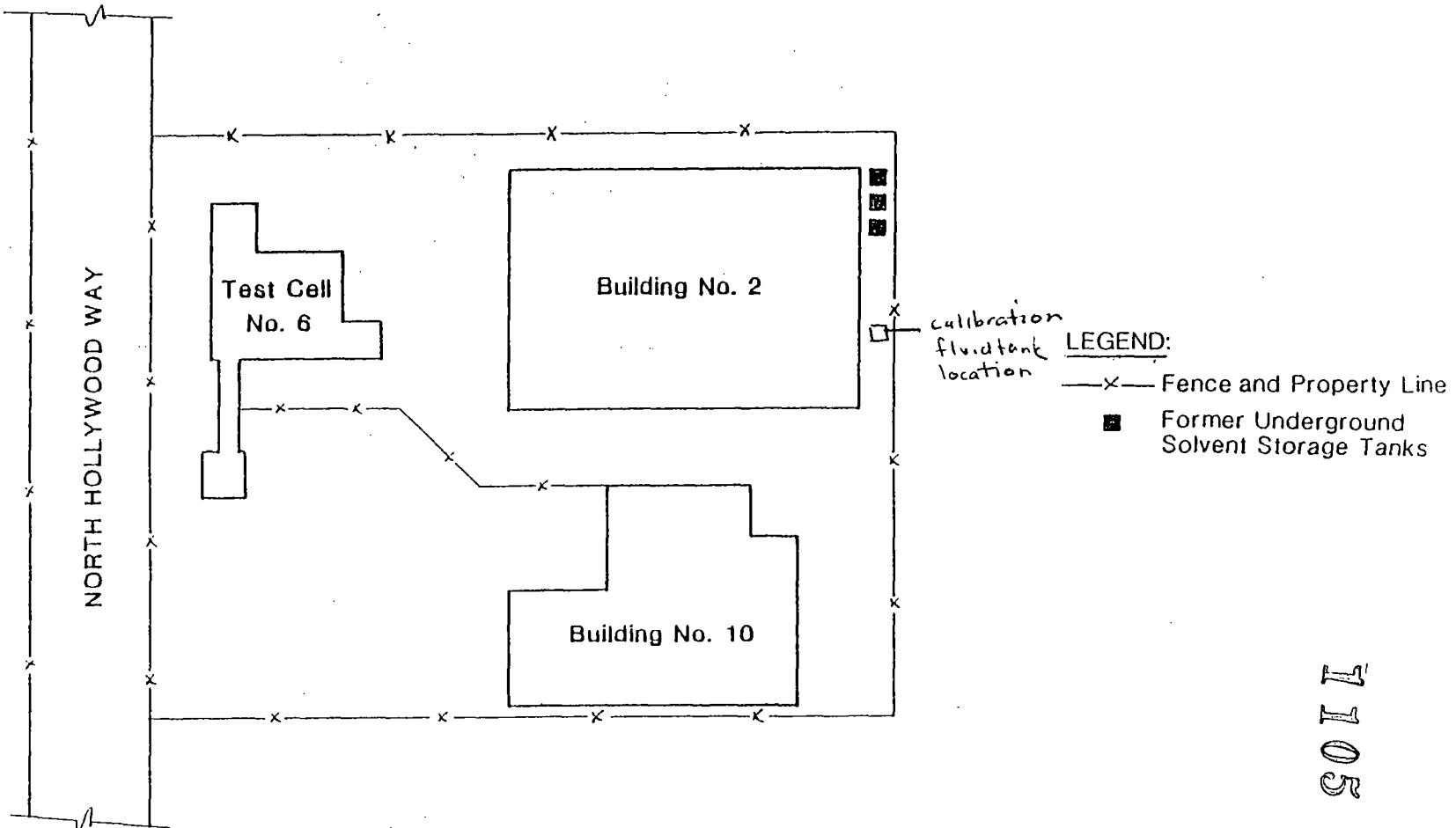
< - Symbol denotes that the concentration is below the detection limits of the analysis method.

PCE Tetrachloroethylene (Perchloroethylene)

TCE Trichloroethylene

14  
10  
CR

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↑  
NOT TO SCALE



NOTE: Figure based on Site Plan dated 8/11/81  
Serial #8944, Index 76684. Prepared for  
Purex Industries, Inc., Burbank, California

Kennedy/Jenks/Ch

Preliminary Site Assessr  
Pacific Airmotive Corpora  
Burbank,

Approximate Locations of Former Undergrc  
Solvent Storage Ta

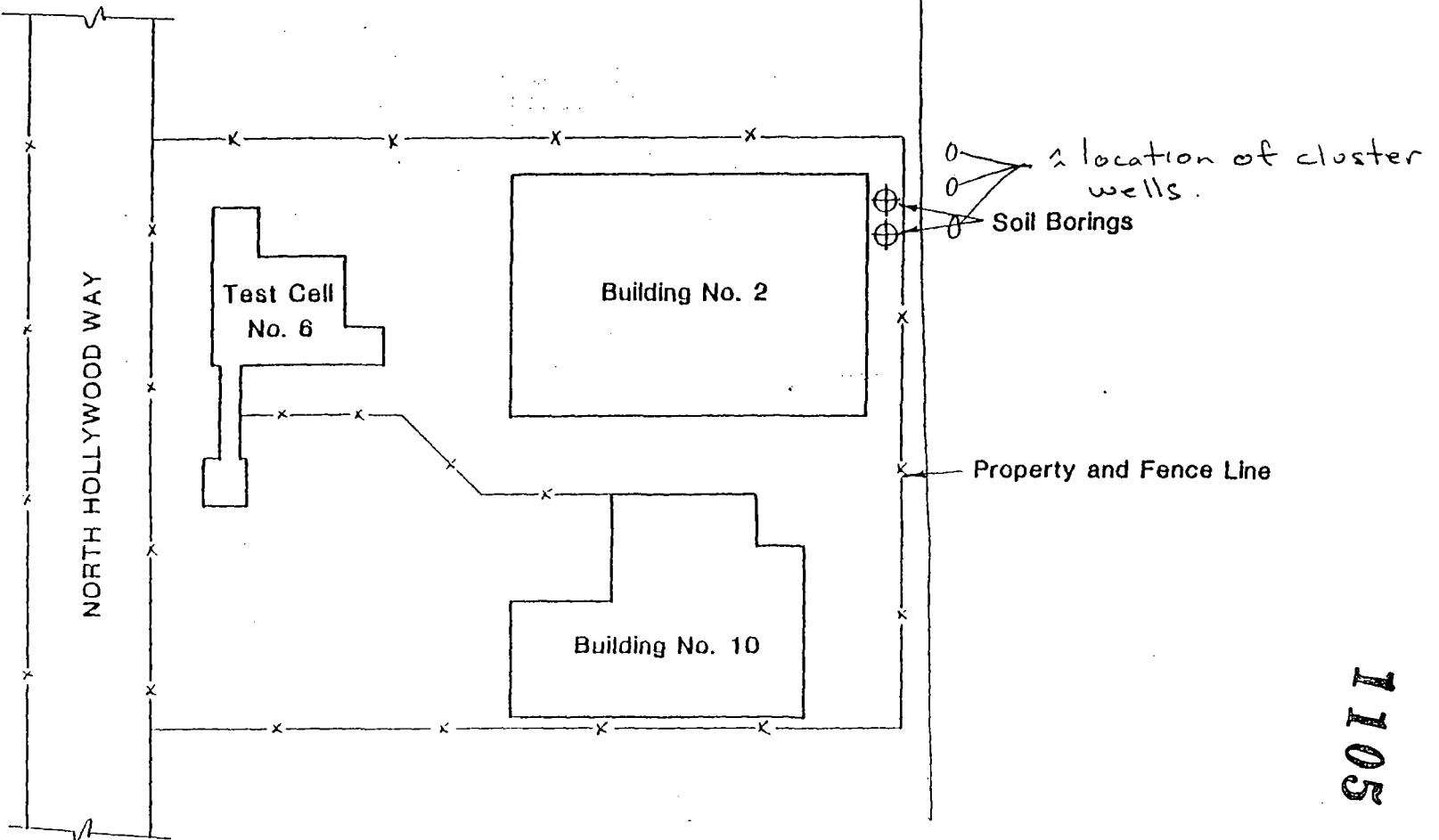
K/J/C 88260  
September 1

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NOT TO SCALE

Lockheed property



NOTE: Figure based on Site Plan dated 8/11/81  
Serial #8944, Index 76684. Prepared for  
Purex Industries, Inc., Burbank, California

Kennedy/Jenks/C

Preliminary Site Asses  
Pacific Airmotive Corp  
Burbar

Approximate Location of Soil B

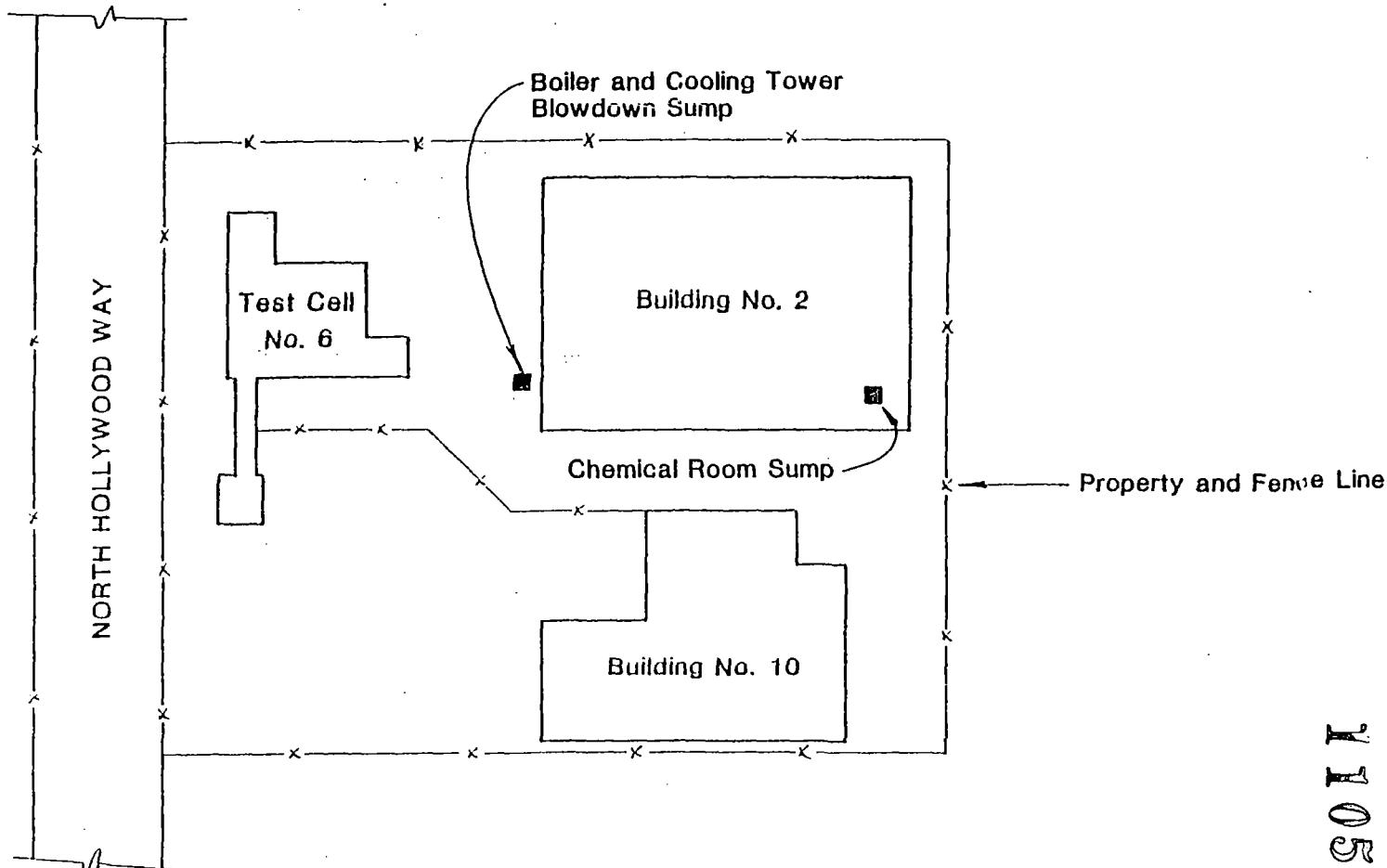
K/J/C 882/  
September

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NOTE: Figure based on Site Plan dated 8/11/81  
Serial #8944, Index 76684. Prepared for  
Purex Industries, Inc., Burbank, California

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Preliminary Site Assess  
Pacific Airmotive Corpor  
Burbank

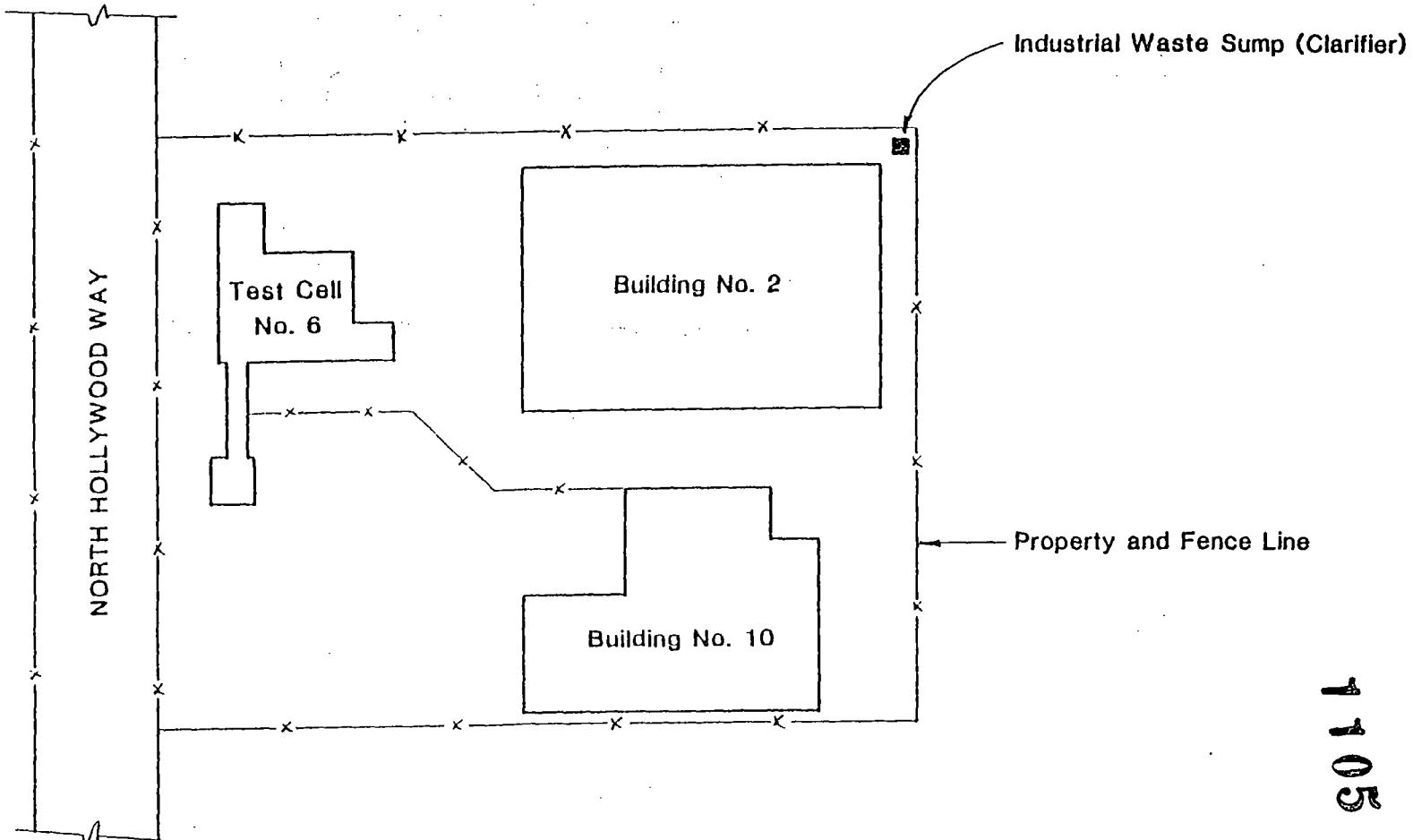
Approximate Location of Visually Inspe  
Facility Si

K/J/C 88250  
September

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NOTE: Figure based on Site Plan dated 8/11/81  
Serial #8944, Index 76684. Prepared for  
Purex Industries, Inc., Burbank, California.

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Preliminary Site Asses  
Pacific Airmotive Corp  
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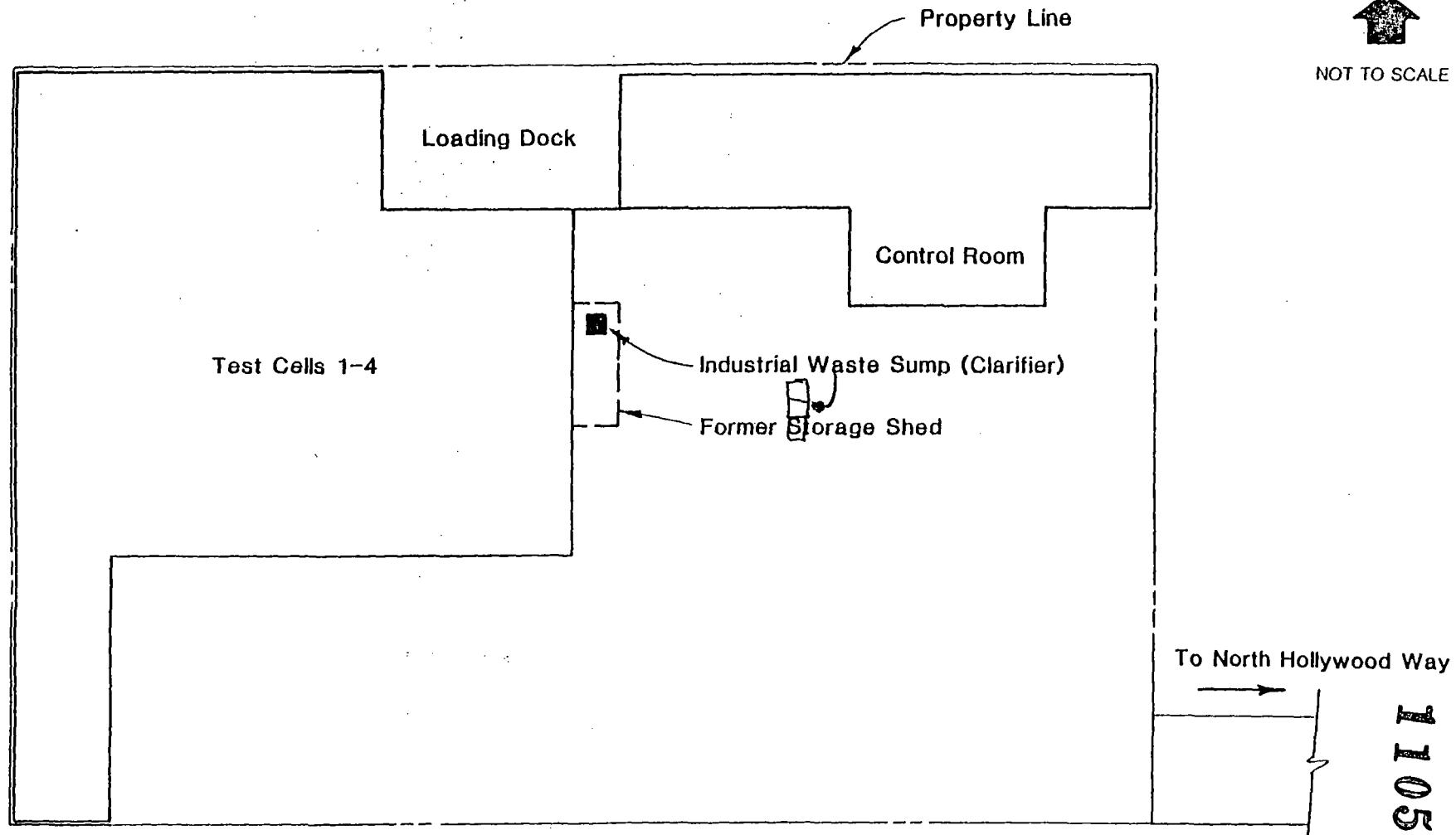
Approximate Location of Building  
Industrial Waste

K/J/C 882  
September

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NOT TO SCALE



NOTE: Figure based on Plot Plan by James H. Francis EM 77935,  
prepared for Pacific Airmotive Corp., Burbank, Ca.

Kennedy/Jenks/Chilt  
Preliminary Assessme  
Pacific Airmotive Corporat  
Burbank, Califor

Approximate Location of Test Cell Faci  
Industrial Waste Su

3003 N Hollywood Way

K/J/C 882504  
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Attachment A to Kennedy/Jenks/Chilton's  
letter to Mr. Eugene Fox dated  
30 September 1988

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**ATTACHMENT A**  
**SOIL BORING LOGS**

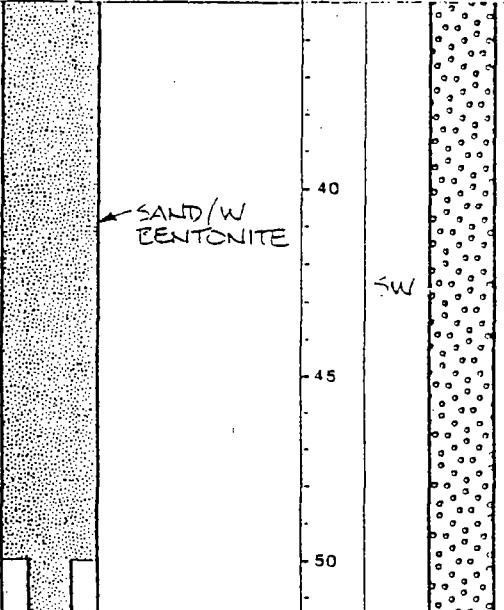
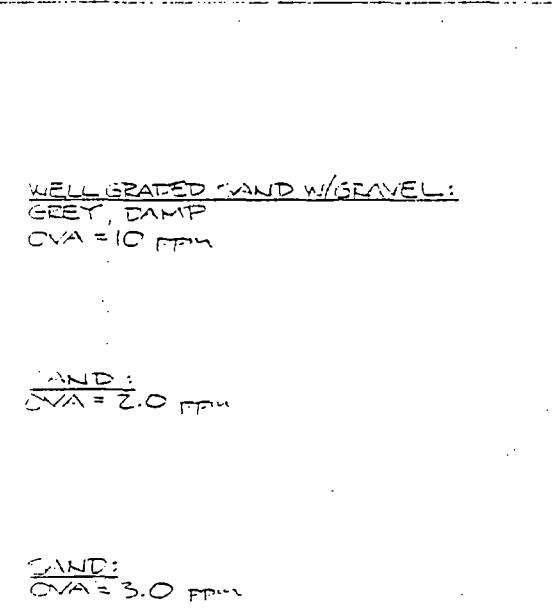
PROJECT PACIFIC AIRMOTIVE CORPORATION				DATE: 8/16/88	BORING B-11
JOB NO 882504.00				BY: M. GIBSON	
Details of Boring and Well Construction					
SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6' INTERVAL	Well Construction	DEPTH IN FEET	USCS SYMBOLS
1	C.M.	4 5 7	PACKFILL SAND W/ BENTONITE	5	SM
2	C.M.	7 11 17		10	
3	C.M.	22 25 50		15	
4	L.M.	14 21 25		20	
				25	
				30	
				35	
SURFACE ELEVATION: NOT MEASURED DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON DRILLER: DATUM EXPLORATION 3 INCH THICK ASPHALT W/ GRAVEL FILL: HETEROGENOUS MATERIAL CONSISTING OF LIGHT BROWN FINE TO MEDIUM SAND & SILTY CLAY W/GRAVEL  SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP OVA = 10 ppm  SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP VERY COARSE SAND OVA = 2.5 ppm  MORE SILT  WELL GRADED SAND W/GRAVEL: GREY, DAMP OVA = 4 ppm  SILTY SAND: BROWN, FINE TO MEDIUM GRAINED W/COARSE SAND, DAMP OVA = 4.0 ppm					

PROJECT PACIFIC AIRMOTIVE CORPORATION					DATE 8/16/88	BORING B-11
JOB NO 882504.00					BY M. GIBSON	
Details of Boring and Well Construction						
SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6' INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS
5	C.M.	<del>30</del> <del>55</del> 60(5)		40	W	
<p><u>WELL GRADED SAND W/GRAVEL:</u>  <u>GREY, DAMP</u>  <u>OVA = 2.0 ppm</u></p> <p><u>BOTTOM OF BORING AT 42 FEET</u>  <u>DRIVE SAMPLE TO 43.5 FEET</u></p>						
<p>NOTE: 1. OVA READINGS CORRESPOND TO FIELD HEADSPACE MEASUREMENT.      APPROXIMATELY 100 GRAMS OF SOIL WERE PLACED IN A 1 - PINT      WIDE MOUTH PLASTIC JAR, THE LID CLOSED, AND THE JAR ALLOWED      TO STAND FOR APPROXIMATELY 10 MINUTES AT AMBIENT TEMPERATURE,      THE LID WAS THEN REMOVED, THE PROBE QUICKLY INSERTED, AND THE      READINGS OBTAINED. OVA READINGS WERE TAKEN AT EVERY DRIVE      SAMPLE INTERVAL.</p>						

PROJECT PACIFIC AIRMOTIVE CORPORATION					DATE 8/16/88	BORING B-12
JOB NO 882504.00					BY M. GIBSON	
<b>Details of Boring and Well Construction</b>					SURFACE ELEVATION: NOT MEASURED	
SAMPLE NUMBER	SAMPLER TYPE	'BLOWS/6' INTERVAL	Well Construction	DEPTH IN FEET	USCS	SYMBOLS
1	C.M.	12 15	SAND w/ EENTONITE	5	SM	3 INCH THICK ASPHALT W/GRVEL SUB-EASE
2	C.M.	5 17 60		10	ML	FILL: HETEROGENOUS MATERIAL CONSISTING OF LIGHT BROWN FINE TO COARSE SAND AND SILTY SAND W/GRAVEL
3	C.M.	14 21 30		15		SILTY SAND: BROWN, FINE TO COARSE GRAINED w/CLAYET SILT INCLUSIONS, DAMP, SOME ASPHALT IN SAMPLE CVA = 22 ppm
4	C.M.	14 25 24		20		ANDY SILT TO SILT: BROWN, MOIST CVA = 25 ppm
				25		
				30		
				35		
						WELL GRADED SAND: GREY, DAMP (CVA = 17 ppm)
						SILTY SAND: BROWN, FINE TO MEDIUM GRAINED, DAMP

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Kernan/Jenks Chitton

PROJECT PACIFIC AIRMOTIVE CORPORATION						DATE 8/16/88	BORING B-12
JOB NO. 882504.00						BY M. GIBSON	
<b>Details of Boring and Well Construction</b>							
SAMPLE NUMBER	SAMPLER TYPE	BLOWS/6' INTERVAL	Well Construction		DEPTH IN FEET	USCS	SYMBOLS
51	C.M.	25 40 60(5)			40	SW	
6	C.M.	50 70			45		
7	C.M.	45 70(4)			50		
<p><b>SURFACE ELEVATION: NOT MEASURED</b></p> <p><b>DRILLING METHODS: HOLLOW STEM AUGER 8 INCH DIAMETER</b></p> <p><b>SAMPLING METHODS: 2.5 INCH CALIFORNIA MODIFIED SPLIT SPOON</b></p> <p><b>DRILLER: DATUM EXPLORATION</b></p> <p><b>WELL GRADED SAND W/GRVEL: GREY, DAMP CVA = 10 ppm</b></p> <p><b>SAND: CVA = 2.0 ppm</b></p> <p><b>SAND: CVA = 3.0 ppm</b></p> <p><b>FLOOR OF BORING AT 50 FEET DRIVE SAMPLE TO 51.5 FEET</b></p>							

NOTE: 1. OVA READINGS CORRESPOND TO FIELD HEADSPACE MEASUREMENT.  
 APPROXIMATELY 100 GRAMS OF SOIL WERE PLACED IN A 1 - PINT  
 WIDE MOUTH PLASTIC JAR, THE LID CLOSED, AND THE JAR ALLOWED  
 TO STAND FOR APPROXIMATELY 10 MINUTES AT AMBIENT TEMPERATURE,  
 THE LID WAS THEN REMOVED, THE PROBE QUICKLY INSERTED, AND THE  
 READINGS OBTAINED. OVA READINGS WERE TAKEN AT EVERY DRIVE  
 SAMPLE INTERVAL.

**1105**

**Kennedy/Jenks/Chilton**

Attachment B to Kennedy/Jenks/Chilton's  
letter to Mr. Eugene Fox dated  
30 September 1988

**ATTACHMENT B**

**COPIES OF LABORATORY SOIL ANALYSIS REPORTS**

## Analysis Report

Kennedy/Jenks/Chilton

1105

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885839

Source Sample I.D.: B11-1  
 Depth: 7.5 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0905

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, ST

Manager Bennett R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The validity of the laboratory results depends upon the proper sampling and handling of the sample. For further information, contact the laboratory's director and/or manager.

1105

## Kennedy/Jenks/Chilton

## Analysis Report

## Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

1105

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 Quality Control Page  
 (K/J/C 882504.00)

Lab. No. 885839

Source Sample I.D.: B11-1  
 Depth: 7.5 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0905

Collected by K/J/C

Analysis	Units	Replicate	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	<1 Spike recovery 103%	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	<1.7 Spike recovery 116%	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	<2	

Comments: Analysis of pentane extract by gas chromatography, using commercial hydrocarbon samples as reported in milligrams per kilogram, wet (as re-

lization  
Results

Analyst WW, JT

Manager

1105  
FmW/J

This report applies only to the sample investigated and is not necessarily indicative of the quality or apparently identical material to which it was subjected prior to the receipt of the sample. The results presented are known to the laboratory to be reliable. The laboratory does not guarantee analysis of samples to hold the laboratory harmless against all claims of damages or liability for the contents herein.

is the responsibility of the laboratory  
to determine and verify the test

1105  
FmW/J

## Kennedy/Jenks/Chilton

Analysis Report

1105

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885840

Source Sample I.D.: 811-2  
 Depth: 10 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0910

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WH, JT

Manager

This report relates only to the sample investigated and shall not be construed as conclusive of the quality of apparently identical or similar samples. The action of the laboratory is limited to the analysis of the sample submitted by the analyst. The above conclusions are based on the analytical procedures utilized and by those methods and no other conclusion can be drawn. The analyst agrees to hold the information furnished herein in confidence and not to disclose it without the written consent of the laboratory.

REC'D  
FBI - SF  
LAB  
8/26/88

## Kennedy/Jenks/Chilton

Laboratory Division

657 Howard Street  
San Francisco, California 94105  
415-362-6065

## Analysis Report

1105

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827	(K/J/C 882504.00)	

Lab. No. 885841

Source Sample I.O.: 811-3  
Depth: 20 ft  
PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0920

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: WH, JT

Manager: Everett R. Smith

This report relates only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The validity of the laboratory is limited to the information contained in the report by the analyst. The source assumes all responsibility for the further distribution of this report and its contents and by making such distribution agrees to hold the laboratory harmless against all claims or demands for damages or otherwise in connection with the contents hereof.

Lab. 2  
Rev. 3/88

## Kennedy/Jenks/Chilton

## Analysis Report

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

1105

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885842

Source Sample I.D.: B11-4  
 Depth: 30 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 0930

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: Noel M. Lerner

Manager: Noel M. Lerner

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report to be issued. The above describes only certain parts of this report. If further information or other parts of this report are required, and by making such request in writing to the laboratory, witness signature of analyst and/or manager is deemed to constitute written agreement.

LSC 2

SAC 288

B-100

*Analysis Report*

Kennedy/Jenks/Chilton

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

1105

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827	(K/J/C 882504.00)	

Lab. No.	885843
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Source	Sample I.D.: B11-5
PAC	Depth: 42 ft

Date Collected	8/16/88	Date Analyzed:	8/20-25/88
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Time Collected	0950
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Collected by	K/J/C
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Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

---

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst W.H. JTManager Robert R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount of the fee paid for the analysis. The user assumes all risk for the further distribution of this report or its contents and for making such distribution agreeable to the laboratory, witness against all claims of damage to it or to the contents hereof.

LSD  
Rev 128

## Analysis Report

Kennedy/Jenks/Chilton

1105

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885844

Source Sample I.O.: 812-1  
 Depth: 7.5 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1030

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst MW, JF

Manager Noel M. Lerner

This report applies only to the sample investigated and is not necessarily indicative of the suitability of the laboratory to test directly petroleum or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuer. The issuer assumes all responsibility for the results obtained and the report is to be used only for the purpose for which it was issued. It is the responsibility of the issuer to have the laboratory determine the nature and extent of persons to whom the report is to be distributed.

**Kennedy/Jenks/Chilton**

## Analysis Report

## Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

1105

For Kennedy/Jenks/Chilton  
Attention Noel M. Lerner  
Address 3336 Bradshaw Road, Suite 320  
Sacramento, CA 95827

Received 8/17/88  
Reported 8/26/88  
  
(K/J/C 882504.00)

Lab. No. 885845

Source Sample I.D.: B12-2  
PAC Depth: 12 ft

Date Collected: 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1040

Collected by K/L/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analysis: MM, JT

Manager —Green R. Evans

The record books for the sample households are not necessarily indicative of the actual consumption patterns of similar households. The scope of the operation is limited to the households in the sample. The report describes the results for the sample households in the report. It is recommended that policy makers take into account the results of this study when formulating policies to assist persons to migrate in the future.

## Analysis Report

Kennedy/Jenks/Chilton

1105

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885846

Source Sample I.D.: 812-3  
 Depth: 20 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1045

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst MW, JT

Manager Noel M. Lerner

This report relates only to the sample investigated and is not necessarily indicative of the quality of laboratory services or technical performance. The activity in the laboratory is limited to the amount paid for the work by the source. The above activities do not constitute an audit or inspection of the laboratory's quality control system. The laboratory does not guarantee that its equipment agrees to the laboratory performance requirements or persons so informed of the same to believe.

## Analysis Report

1105

Kennedy/Jenks/Chilton

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885847

Source Sample I.D.: 812-4  
 Depth: 32 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1050

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst VW, JT

Manager Noel R. Lerner

This report contains only the results of the investigation and is not necessarily representative of the total measurement, identification, or other analyses. The scope of the analysis is limited to the samples sent to the laboratory by the issuer. The above results of analysis may be relied upon only in connection with the specific sample(s) analyzed. Laboratory staff distribution agrees to hold the information herein confidential and its employees informed of the contents thereof.

## Kennedy/Jenks/Chilton

Analysis Report

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

1105

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827	(K/J/C 882504.00)	

Lab. No.	885848
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Source	Sample I.O.: B12-5
	Depth: 40 ft
PAC	

Date Collected	8/16/88	Date Analyzed:	8/20-25/88
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Time Collected	1110
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Collected by	K/J/C
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Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JTManager Bennett R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The laboratory does not assume responsibility for any damages resulting from the use of the data contained in this report by the reader. The reader assumes all responsibility for the further distribution of this report and for any use made of the data contained therein. The laboratory does not assume any liability for personal injury or property damage resulting from the use of the data contained herein.

201  
100-1  
Rev 5/88

## Analysis Report

1105

Kennedy/Jenks/Chilton

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885349

Source Sample I.D.: B12-6  
 Depth: 45 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1120

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Zenith R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the test(s) performed. The above services are subject to the terms and conditions of the account to which reference is made, including such terms as agrees to the other standard methods and materials of performance specified in the agreement.

1105  
Rev. 1/84

## Kennedy/Jenks/Chilton

## Analysis Report

1105

## Laboratory Division

657 Howard Street  
 San Francisco, California 94105  
 415-362-6065

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827	(K/J/C 882504.00)	

Lab. No. 885850

Source Sample I.D.: 812-7  
Depth: 50 ft  
PAC

Date Collected 8/16/88 Date Analyzed: 8/20-25/88

Time Collected 1130

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons. (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst: W.H. Smith

Manager: Eric H. R. Smith

This report relates only to the sample investigated and is not necessarily indicative of the quality or appearance, chemical or physical properties of the whole or other materials. The analyst, at his discretion, shall determine what additional information is needed to evaluate the issue. The issues involved in the ultimate disposition of this result are the responsibility of the client. This laboratory makes no representations concerning its ability to predict the results of any analysis performed by another laboratory, nor does it assume responsibility for any claims or damages arising from the contents hereof.

120-1  
8/21/88

## Kennedy/Jenks/Chilton

Analysis Report

Laboratory Division

657 Howard Street  
San Francisco, California 94105  
415-362-6065

1105

For	Kennedy/Jenks/Chilton	Received	8/17/88
Attention	Noel M. Lerner	Reported	8/26/88
Address	3336 Bradshaw Road, Suite 320 Sacramento, CA 95827	Quality Control Page (K/J/C 882504.00)	

Lab. No.	885850
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Source	Sample I.D.: B12-7
	Depth: 50 ft
PAC	

Date Collected	8/16/88	Date Analyzed:	8/20-25/88
----------------	---------	----------------	------------

Time Collected	1130
----------------	------

Collected by	K/J/C
--------------	-------

Analysis	Units	Replicate	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	<1      Spike recovery 100%	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	<1.7      Spike recovery 111%	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Ernest R. Giff

This report applies only to the sample investigated and is not necessarily representative of the quality or appearance of other similar samples. The validity of the laboratory test results depends on the report by the issuer. The issuer assumes no responsibility for further distribution of this document or its contents and for making such distribution agreeable to the addressee. Kennedy/Jenks/Chilton disclaims all rights in documents so furnished in the contents hereof.

Giff

Aug 1988

Rev 188

**Kennedy/Jenks/Chilton**

Laboratory Division

657 Howard Street

San Francisco California 94105

415-362-6065

**Analysis Report**

**1105**

For Kennedy/Jenks/Chilton  
Attention Noel M. Lerner  
Address 3336 Bradshaw Road, Suite 320  
Sacramento, CA 95827

Received -  
Reported 8/26/88  
(K/J/C 882504.00)

Lab. No. Method Spike

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/20-25/88

Time Collected -

Collected by K/J/C

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<b>Analysis</b>	<b>Units</b>	<b>Analytical Results</b>
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Petroleum Hydrocarbons (as gasoline) Spike recovery 100%

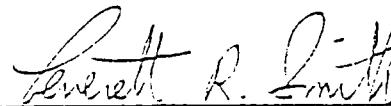
Petroleum Hydrocarbons (as diesel fuel) Spike recovery 117%

---

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards.

Analyst WW, JT

Manager



This report applies only to the sample investigated and is not necessarily indicative of the quality or appearance of similar samples. The quality of the materials referred to in the report is not the responsibility of the analyst. The issue assumes availability for the further distribution of the sample to other laboratories and by third parties. Agreements concerning liability shall be made against all users of samples so informed at the time of receipt.

Rev. 2  
Rev. 2/88

## Analysis Report

1105

Kennedy/Jenks/Chilton

Laboratory Division

657 Howard Street

San Francisco, California 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received -  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/20-25/88 (?)

Time Collected -

Collected by K/J/C

Analysis	Units	Analytical Results	Det. Limit
Petroleum Hydrocarbons (as gasoline)	mg/Kg	<1	1
Petroleum Hydrocarbons (as diesel fuel)	mg/Kg	<1.7	1.7
Petroleum Hydrocarbons (as Stoddard Solvent)	mg/Kg	<2	2

Comments: Analysis of pentane extract by gas chromatography with flame ionization detection, using commercial hydrocarbon samples as comparison standards. Results reported in milligrams per kilogram, wet (as received) weight basis.

Analyst WW, JT

Manager Noel M. Lerner

This report applies to the sample investigated and is not necessarily representative of the results of apparent, general or similar samples. The accuracy of the laboratory is not guaranteed with respect to the results. The results and their significance must be evaluated in the context of the entire analytical method used, including such information as precision, detection limits and potential sources of error.

100-2  
Rev. 3/88

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885839

Source Sample I.O.: Soil- B11-1  
 Depth: 7.5 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/18/88

Time Collected 0905

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS			
	ug/Kg (ppb)	Volatile	ug/Kg (ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5
bromomethane	<10	10	1,2-dichloropropane	<5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5
chloroethane	<10	10	trichloroethylene	<5
methylene chloride	<5	5	benzene	<5
acrolein	<30	30	dibromochloromethane	<5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5
1,1-dichloroethane	<5	5	bromoform	<5
1,2-dichloroethylene	<5	5	tetrachloroethylene	180
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5
1,2-dichloroethane	<5	5	toluene	57
1,1,1-trichloroethane	<5	5	chlorobenzene	<5
carbon tetrachloride	<5	5	ethylbenzene	<5
NON-PRIORITY POLLUTANT COMPOUNDS				
acetonitrile	<30	30	vinyl acetate	<10
acetone	<10	10	4-methyl-2-pentanone	<10
carbon disulfide	<5	5	2-hexanone	<10
1,1,2-Trichloro-			styrene	<5
1,2,2-trifluoroethane	<5	5	xylenes	<5
2-butanone	<10	10		

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Elliott R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

657 Howard Street

San Francisco, CA 94105

415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885840

Source Sample I.D.: Soil-B11-2  
 Depth: 10 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0910

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(pob)		Volatiles	ug/Kg(pob)	
	Det.	Lim.		Det.	Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	12	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	12	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager

*Bennett R. Smith*

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7705

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885841

Source Sample I.D.: Soil-B11-3  
 Depth: 20 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0920

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Det.	Lim.	Volatiles	ug/Kg(ppb)	Det.	Lim.
chloromethane	<10	10		bromodichloromethane	<5	5	
bromomethane	<10	10		1,2-dichloropropane	<5	5	
vinyl chloride	<10	10		trans-1,3-dichloropropylene	<5	5	
chloroethane	<10	10		trichloroethylene	<5	5	
methylene chloride	<5	5		benzene	<5	5	
acrolein	<30	30		dibromochloromethane	<5	5	
acrylonitrile	<10	10		cis-1,3-dichloropropylene	<5	5	
trichlorofluoromethane	<5	5		1,1,2-trichloroethane	<5	5	
1,1-dichloroethylene	<5	5		2-chloroethylvinyl ether	<5	5	
1,1-dichloroethane	<5	5		bromoform	<5	5	
1,2-dichloroethylene	<5	5		tetrachloroethylene	<5	5	
chloreform	<5	5		1,1,2,2-tetrachloroethane	<5	5	
1,2-dichloroethane	<5	5		toluene	9	5	
1,1,1-trichloroethane	<5	5		chlorobenzene	<5	5	
carbon tetrachloride	<5	5		ethylbenzene	<5	5	

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager

*Benett R. Smith*

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657 Howard Street  
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 415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885842

Source Sample I.D.: Soil- B11-4  
 Depth: 30 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0930

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS			ug/Kg(ppb)	Det. Lim.
	ug/Kg(ppb)	Volatile	Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	18	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS					
acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Brent R. Smith

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 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885843

Source Sample I.D.: Soil- 811-5  
 Depth: 42 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 0950

Collected by K/J/C

Volatiles	PRIORITY POLLUTANT COMPOUNDS			ug/Kg(ppb)	Det. Lim.
		ug/Kg(ppb)	Volatiles		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	12	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Terrill R. Smith

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For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885844

Source Sample I.D.: Soil- 812-1  
 Depth: 7.5 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1030

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS			ug/Kg (ppb)	Det. Lim.
		ug/Kg (ppb)	Volatile		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	12	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	33	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager

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415-362-6065

For Kennedy/Jenks/Chilton  
Attention Noel M. Lerner  
Address 3336 Bradshaw Road, Suite 320  
Sacramento, CA 95827

1105

Received 8/17/88  
Reported 8/26/88  
(K/J/C 882504.00)

Lab. No. 885845

Source Sample I.D.: Soil- B12-2  
Depth: 12 ft  
PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1040

Collected by K/J/C

#### PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Volatiles	ug/Kg(ppb)		
	Det. Lim.		Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	11	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	380	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	95	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xlenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Benjamin R. Smith

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 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885846

Source Sample I.D.: Soil- B12-3  
 Depth: 20 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/19/88

Time Collected 1045

Collected by K/J/C

#### PRIORITY POLLUTANT COMPOUNDS

Volatiles	uq/Kg(ppb)		Volatiles	uq/Kg(ppb)	
	Det.	Lim.		Det.	Lim.
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	7	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

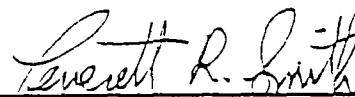
#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager



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 San Francisco, CA 94105  
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For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885847

Source Sample I.D.: Soil- 812-4  
 Depth: 32 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1050

Collected by K/J/C

#### PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Volatiles	ug/Kg(ppb)	Det. Lim.	
		Det. Lim.			
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	16	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Levett R. Smith

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For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

7105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885848

Source Sample I.D.: Soil- 812-5  
 Depth: 40 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1110

Collected by K/J/C

#### PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Volatiles	ug/Kg(ppb)		
	Det. Lim.		Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	18	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager

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 415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885849

Source Sample I.D.: Soil- 812-6  
 Depth: 45 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1120

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS			Det. Lim.
	ug/Kg(pob)	Volatile	ug/Kg(pob)	
chloromethane	<10	10	bromodichloromethane	<5
bromomethane	<10	10	1,2-dichloropropane	<5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5
chloroethane	<10	10	trichloroethylene	<5
methylene chloride	<5	5	benzene	<5
acrolein	<30	30	dibromochloromethane	<5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5
1,1-dichloroethane	<5	5	bromoform	<5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5
1,2-dichloroethane	<5	5	toluene	20
1,1,1-trichloroethane	<5	5	chlorobenzene	<5
carbon tetrachloride	<5	5	ethylbenzene	<5
NON-PRIORITY POLLUTANT COMPOUNDS				
acetonitrile	<30	30	vinyl acetate	<10
acetone	<10	10	4-methyl-2-pentanone	<10
carbon disulfide	<5	5	2-hexanone	<10
1,1,2-Trichloro-			styrene	<5
1,2,2-trifluoroethane	<5	5	xylenes	<5
2-butanone	<10	10		

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Lennett R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

657 Howard Street  
 San Francisco, CA 94105  
 415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

7105

Received 8/17/88  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. 885850

Source Sample I.D.: Soil- 812-7  
 Depth: 50 ft  
 PAC

Date Collected 8/16/88 Date Analyzed: 8/20/88

Time Collected 1130

Collected by K/J/C

#### PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Volatiles	ug/Kg(ppb)		
	Det. Lim.		Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	7	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

#### NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager *Sherell R. Smith*

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657 Howard Street  
 San Francisco, CA 94105  
 415-362-6065

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received -  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/19/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg(ppb)	Volatiles	ug/Kg(ppb)		
	Det. Lim.		Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	<5	5
i,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	<10	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Lennett R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims by persons so informed of the contents hereof.

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received -  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. Method Blank ✓

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/20/88

Time Collected -

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS		
	ug/Kg(opp)	Volatile	Det. Lim.
chloromethane	<10	10	bromodichloromethane
bromomethane	<10	10	1,2-dichloropropane
vinyl chloride	<10	10	trans-1,3-dichloroprop-
chloroethane	<10	10	trichloroethylene
methylene chloride	<5	5	benzene
acrolein	<30	30	dibromochlorome
acrylonitrile	<10	10	cis-1,3-dich'
trichlorofluoromethane	<5	5	1,1,2-tric
1,1-dichloroethylene	<5	5	2-chlor
1,1-dichloroethane	<5	5	bromo
1,2-dichloroethylene	<5	5	te
chloroform	<5	5	
1,2-dichloroethane	<5	5	
1,1,1-trichloroethane	<5		<5
carbon tetrachloride	<5		<5
			5

NON-

acetonitrile	<10	10
acetone	<10	10
carbon disulfide	<10	10
1,1,2-Trichloro-	<5	5
1,2,2-trifluoroethane	<5	5
2-butanone	<5	5

Comments: Analysis by U.S.  
 (as received) weight basis.

grams per kilogram, wet

Analyst DC, WW

Penrett R. Smith

This report applies only to the sample investigated and is not necessarily binding on the laboratory. The liability of the laboratory is limited to the amount paid for the report by the client or its agent. The client agrees to hold the laboratory harmless and to indemnify it against all claims or expenses arising from the distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless.

It is the responsibility of the analyst to inform the client of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the client or its agent. The client agrees to hold the laboratory harmless and to indemnify it against all claims or expenses arising from the distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless.

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

1105

Received -  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.D.: Sand

Date Collected - Date Analyzed: 8/18/88

Time Collected -

Collected by K/J/C

PRIORITY POLLUTANT COMPOUNDS

Volatiles	ug/Kg (ppb)	Volatiles	ug/Kg (ppb)		
	Det. Lim.		Det. Lim.		
chloromethane	<10	10	bromodichloromethane	<5	5
bromomethane	<10	10	1,2-dichloropropane	<5	5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5	5
chloroethane	<10	10	trichloroethylene	<5	5
methylene chloride	<5	5	benzene	<5	5
acrolein	<30	30	dibromochloromethane	<5	5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5	5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5	5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5	5
1,1-dichloroethane	<5	5	bromoform	<5	5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5	5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5	5
1,2-dichloroethane	<5	5	toluene	<5	5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5	5
carbon tetrachloride	<5	5	ethylbenzene	<5	5

NON-PRIORITY POLLUTANT COMPOUNDS

acetonitrile	<30	30	vinyl acetate	<10	10
acetone	74	10	4-methyl-2-pentanone	<10	10
carbon disulfide	<5	5	2-hexanone	<10	10
1,1,2-Trichloro-			styrene	<5	5
1,2,2-trifluoroethane	<5	5	xylenes	<5	5
2-butanone	<10	10			

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Bennett R. Smith

This report applies only to the sample investigated and is not necessarily indicative of the quality of apparently identical or similar samples. The liability of the laboratory is limited to the amount paid for the report by the issuee. The issuee assumes all liability for the further distribution of this report or its contents and by making such distribution agrees to hold the laboratory harmless against all claims of persons so informed of the contents hereof.

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

7105

Received -  
 Reported 8/26/88  
 (K/J/C 882504.00)

Lab. No. Method Blank

Source Sample I.O.: Sand

Date Collected - Date Analyzed: 8/19/88

Time Collected -

Collected by K/J/C

Volatile	PRIORITY POLLUTANT COMPOUNDS			
	ug/Kg(pob)	Volatile	ug/Kg(ppb)	Det. Lim.
chloromethane	<10	10	bromodichloromethane	<5 5
bromomethane	<10	10	1,2-dichloropropane	<5 5
vinyl chloride	<10	10	trans-1,3-dichloropropylene	<5 5
chloroethane	<10	10	trichloroethylene	<5 5
methylene chloride	<5	5	benzene	<5 5
acrolein	<30	30	dibromochloromethane	<5 5
acrylonitrile	<10	10	cis-1,3-dichloropropylene	<5 5
trichlorofluoromethane	<5	5	1,1,2-trichloroethane	<5 5
1,1-dichloroethylene	<5	5	2-chloroethylvinyl ether	<5 5
1,1-dichloroethane	<5	5	bromoform	<5 5
1,2-dichloroethylene	<5	5	tetrachloroethylene	<5 5
chloroform	<5	5	1,1,2,2-tetrachloroethane	<5 5
1,2-dichloroethane	<5	5	toluene	<5 5
1,1,1-trichloroethane	<5	5	chlorobenzene	<5 5
carbon tetrachloride	<5	5	ethylbenzene	<5 5
NON-PRIORITY POLLUTANT COMPOUNDS				
acetonitrile	<30	30	vinyl acetate	<10 10
acetone	11	10	4-methyl-2-pentanone	<10 10
carbon disulfide	<5	5	2-hexanone	<10 10
1,1,2-Trichloro-			styrene	<5 5
1,2,2-trifluoroethane	<5	5	xylenes	<5 5
2-butanone	<10	10		

Comments: Analysis by U.S. EPA Method 8240, reported in micrograms per kilogram, wet (as received) weight basis.

Analyst DC, WW

Manager Bennett R. Smith

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## Kennedy/Jenks/Chilton

GC/MS Volatiles  
Surrogate Standard Recovery Report

Laboratory Division  
657 Howard Street  
San Francisco, California 94105  
415-362-6065

1105

For Kennedy/Jenks/Chilton  
Attention Noel M. Lerner  
Address 3336 Bradshaw Road, Suite 320  
Sacramento, CA 95827

Received \_\_\_\_\_  
Reported 8/26/88  
Quality Control Page  
(K/J/C 882504.00) ✓

<u>Sample Identification</u>	<u>Lab No.</u>	<u>Type</u>	<u>Percent Recoveries</u>		
			<u>1,2-Dichloroethane-d4</u>	<u>Toluene-d8</u>	<u>4-Bromofluorobenzene</u>
Method Blank		Sand	96	96	104
885839		Soil	99	96	99
885839 Dup.		Soil	101	102	101
885841		Soil	101	95	104
885842		Soil	102	96	107
885844		Soil	99	96	103
885840		Soil	102	93	101
885843		Soil	103	93	102
Method Blank		Sand	106	98	105
Method Blank		Sand	108	97	95
885845		Soil	94	101	94
885845 Dup.		Soil	104	99	94
885846		Soil	97	101	97

<u>Acceptable Recoveries:</u>	<u>Water</u>	<u>Soil</u>
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	88-110	81-117
4-Bromofluorobenzene	86-115	74-121

Analyst DC, MM

Manager

*Ernest R. Smith*

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1105

For Kennedy/Jenks/Chilton  
 Attention Noel M. Lerner  
 Address 3336 Bradshaw Road, Suite 320  
 Sacramento, CA 95827

Received -  
 Reported 8/26/88  
 Quality Control Page  
 (K/J/C 882504.00)

Sample Identification		Percent Recoveries		
Lab No.	Type	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
885847	Soil	96	98	97
885848	Soil	92	98	99
885849	Soil	117	96	102
885850	Soil	120	93	98
Method Blank	Sand	100	89	107

Acceptable Recoveries:

	Water	Soil
1,2-Dichloroethane-d4	76-114	70-121
Toluene-d8	38-110	81-117
4-Bromofluorobenzene	86-115	74-121

Analyst DC, MW

Manager

*Bennett R. Smith*

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LSC-7-186

Attachment C to Kennedy/Jenks/Chilton's  
letter to Mr. Eugene Fox dated  
30 September 1988

1105

ATTACHMENT C

TOTAL PETROLEUM HYDROCARBONS  
GAS CHROMATOGRAPHY SCANS

1105

TOTAL PETROLEUM HYDROCARBON (TPH) ANALYSISSummary of Method:

Total petroleum hydrocarbons in a sample are determined using a pentane extract. After extraction, the pentane extract is injected into the GC and petroleum hydrocarbons are determined by flame ionization detection. A three point calibration, internal standard method is used.

Instrumentation:

Analyses are performed with a Hewlett Packard 5880A Gas Chromatograph with an F.I.D. Detector, using a 30 m x 0.25 mm I.D. Supelco SPB-5 capillary column with film thickness of 0.25 microns.

GC Conditions:

The initial column temperature is set at 40 degrees Centigrade at the time of injection, held for 8 minutes, then programmed at eight degrees Centigrade per minute to a final temperature of 250 degrees Centigrade, which is held for 2.5 minutes.

Reagents & Standards:

Pentane - pesticide residue analysis grade  
Gasoline - commercial grade  
Diesel - commercial grade  
Pristane - Aldrich, 98% (internal standard)  
Ottawa sand - standard reagent grade (sand blank)

Note:

On the chromatogram, the designation of a laboratory number followed by "A" and "B", refers to duplicate runs on a sample. A "C" following the laboratory number refers to a sample that has been spiked.

G/D signifies gasoline/diesel; for example, G/D standard 358/420 means that the calibration level for gasoline is 358 ppm, and that for diesel is 420 ppm.

KENNEDY/JENKS/CHILTON  
LABORATORY DIVISION  
657 HOWARD STREET  
SAN FRANCISCO, CA 94105

Copies of gas chromatographic traces  
1105 for petroleum hydrocarbons (gas/diesel/stoddar)  
analyses, PAC samples # 825239-50,  
8/88.

SIHRI PRGM

OVEN TEMP NOT READY

— RI: INIT → OFF

RI: INIT → OFF

REC: 000

2.65

5.541

1105

?P

28.64

32.99

HIT STOP RUN

APD 5888H SAMPLER INJECTION # 15107 HUL 24, 1988

SAMPLE #: ID CODE :

1 P/P

IHS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

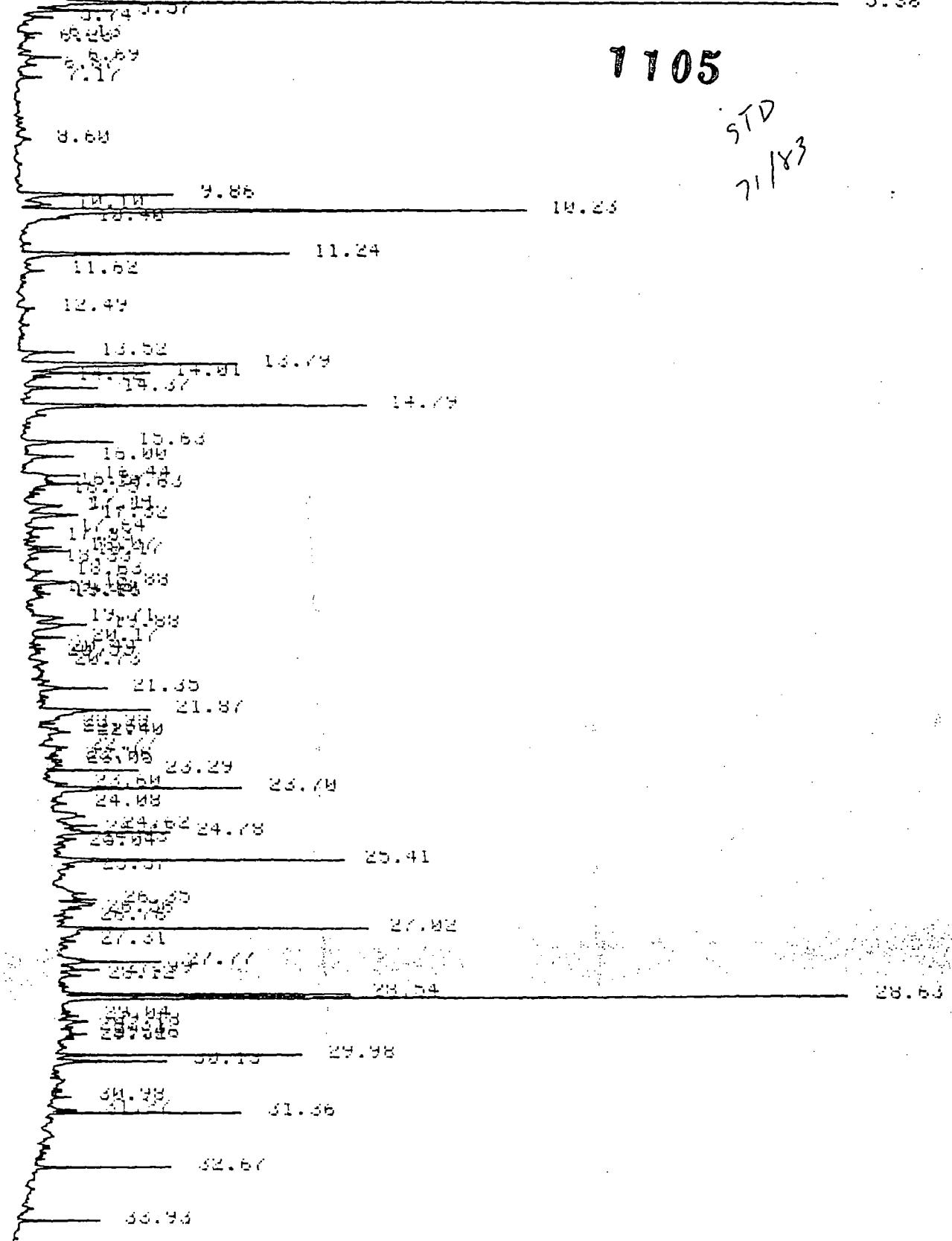
RT	AREH	TYPE	URL	AMOUNT	NAME
28.64	19.81	BB	19	1510 1	HEXANE
32.99	6.02	BB	13	454.670	DIESEL 6-4T

MULTIPLIER = 1

1510 1 MM = 5

RT: INIT + OFF

1105

STD  
7/183

RT: STOP RUN

• EPA 5880H SAMPLE INJECTION @ 16:24 AUG 24, 1988

SAMPLE #: 10 CODE :

E 7/183

• GHS/DIESEL INTERNAL STD METHOD

• ISOT COMPENSATED ANALYSIS

RI

AREAS

TYPE CRC

AMOUNT

NAME

13.79	8.77	BV	4	84.338	LHSULINE	4
14.79	8.49	BV	0	74.749	LHSULINE	0
17.62	1.84	BV	6	76.054	LHSULINE	6
25.41	6.17	BV	7	85.511	DIESEL	1
27.82	5.27	BV	3	78.145	DIESEL	2
28.54	4.92	BV	3	87.943	DIESEL	3
28.63	25.29	V8	10	1510 1	PRASTHNE	
29.98	4.39	BV	11	88.846	DIESEL	4
31.56	3.53	BV	12	86.174	DIESEL	5
32.87	2.44	BV	13	88.206	DIESEL	6
33.93	1.59	BV	14	87.581	DIESEL	7

1105

MULTIPLIER = 1

1510 1 HMI = 0

6583 0889H SHAMPLER INJECTION # 16124 HUL 24, 1988

SAMPLE #: 10 CODE :

Z 71783

GAS/DIESEL INTERNAL STD METHOD

1510 COMPENSATED ANALYSIS

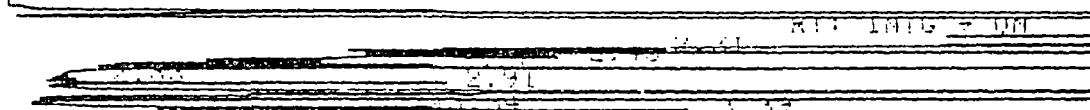
RT	HRHR	TYPE	CHL	AMOUNT	NAME	
9.36	4.46	BV	1	71.999	LHSULINE	1
10.23	10.76	PV	2	71.999	LHSULINE	2
11.24	6.94	BV	3	71.999	LHSULINE	3
13.79	8.77	BV	4	71.999	LHSULINE	4
14.79	8.49	BV	0	71.999	LHSULINE	0
17.62	1.84	BV	6	71.999	LHSULINE	6
25.41	6.17	BV	7	86.160	DIESEL	1
27.82	5.27	BV	3	86.160	DIESEL	2
28.54	4.92	BV	3	86.160	DIESEL	3
28.63	25.29	V8	10	1510 1	PRASTHNE	
29.98	4.39	BV	11	86.160	DIESEL	4
31.56	3.53	BV	12	86.160	DIESEL	5
32.87	2.44	BV	13	86.160	DIESEL	6
33.93	1.59	BV	14	86.160	DIESEL	7

MULTIPLIER = 1

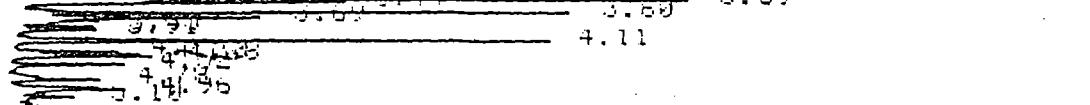
1510 1 HMI = 0

OVEN TEMP NOT READY

RT: 1510 + OFF



RT: 1510 ± 0M  
MIN



5.36



5.36

111161

12.87

13.52

14.12 14.36 14.61

13.69

15.28

15.63

16.08

16.76 17.44 18.13

17.13 17.31

17.64

18.13 18.17

18.18 18.33

18.35

19.44 19.88

19.17

20.13

21.12 21.35

20.55 21.87

22.13 22.44

22.44 22.75

23.13 23.44

23.44 23.75

24.13 24.44

24.44 24.75

24.74 25.05

25.04 25.35

25.34 25.65

25.64 26.05

26.04 26.35

26.34 26.65

26.64 27.05

27.04 27.35

27.34 27.65

27.64 28.05

28.04 28.35

28.34 28.65

28.64 29.05

29.04 29.35

29.34 29.65

29.64 30.05

30.04 30.35

30.34 30.65

30.64 31.05

31.04 31.35

31.34 31.65

31.64 32.05

32.04 32.35

32.34 32.65

32.64 33.05

33.04 33.35

33.34 33.65

33.64 34.05

34.04 34.35

34.34 34.65

34.64 35.05

35.04 35.35

35.34 35.65

35.64 36.05

36.04 36.35

36.34 36.65

36.64 37.05

37.04 37.35

37.34 37.65

37.64 38.05

38.04 38.35

38.34 38.65

38.64 39.05

39.04 39.35

39.34 39.65

39.64 40.05

40.04 40.35

40.34 40.65

40.64 41.05

41.04 41.35

41.34 41.65

41.64 42.05

42.04 42.35

42.34 42.65

42.64 43.05

43.04 43.35

43.34 43.65

43.64 44.05

44.04 44.35

44.34 44.65

44.64 45.05

45.04 45.35

45.34 45.65

45.64 46.05

46.04 46.35

46.34 46.65

46.64 47.05

47.04 47.35

47.34 47.65

47.64 48.05

48.04 48.35

48.34 48.65

48.64 49.05

49.04 49.35

49.34 49.65

49.64 50.05

50.04 50.35

50.34 50.65

50.64 51.05

51.04 51.35

14.05

14.36

13.69

14.05

142/160  
gTD

## RT: STOP RUN

SAMPLE 5889H SAMPLE INJECTION @ 17:12 AUG 24, 1988

SAMPLE #: ID CODE :

3 142/166

GHS/DIESEL INTERNAL STD METHOD

ISID COMPENSATED ANALYSIS

RT	AREC	TYPE	URL	AMOUNT	NAME
9.86	9.69	BB	1	149.557	GHSOLINE 1
10.23	59.22	PV	2	151.170	GHSOLINE 2
11.23	14.47	BB	3	153.887	GHSOLINE 3
13.79	15.91	BB	4	146.551	GHSOLINE 4
14.79	17.25	BB	5	145.879	GHSOLINE 5
17.31	3.78	BB	6	154.688	GHSOLINE 6
20.41	12.95	PV	7	181.370	DIESEL 1
27.82	18.96	PV	8	167.424	DIESEL 2
28.54	9.66	PV	9	175.831	DIESEL 3
28.63	28.75	PV	10	151.0 1	FRTSHNE
28.98	8.21	BB	11	176.686	DIESEL 4

91.90 6.78 V8 12 176.598 DIESEL 5  
 32.67 4.76 BB 13 172.976 DIESEL 6  
 33.93 2.88 BB 14 170.225 DIESEL 7

MULTIPLIER = 1  
 STD 1 MM = 5

1105

CPI 5880H SIMPLER INJECTION @ 17:12 HU, 24, 1988

SIMPLE #: 10 CODE :

3 142/166

SHS/DIESEL INTERNAL STD METHOD

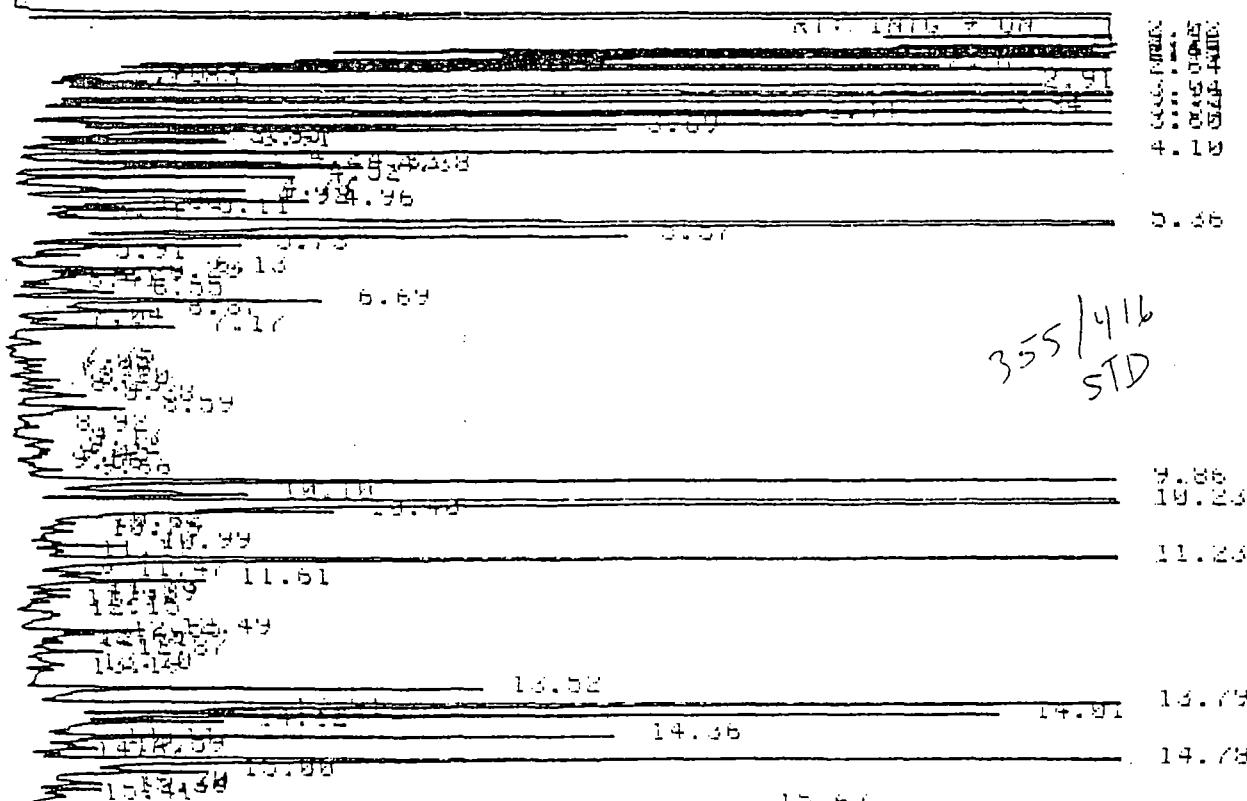
STD COMPENSATED ANALYSIS

RT	AREN	TYPE	CHL	AMOUNT	NAME
9.35	9.69	BB	1	142.888	UNSTABLINE 1
10.24	39.22	VW	2	142.888	UNSTABLINE 2
11.23	14.47	BB	3	142.888	UNSTABLINE 3
13.73	13.81	VW	4	142.888	UNSTABLINE 4
14.79	17.25	BB	5	142.888	UNSTABLINE 5
17.31	3.78	BB	6	142.888	UNSTABLINE 6
20.41	12.95	VW	7	166.288	DIESEL 1
27.02	10.96	VW	8	166.288	DIESEL 2
28.54	9.65	VW	9	166.288	DIESEL 3
28.63	28.75	VW	10	181.0	PRISTINE
29.98	8.21	BB	11	166.288	DIESEL 4
31.46	6.78	VW	12	166.288	DIESEL 5
32.67	4.76	BB	13	166.288	DIESEL 6
33.93	2.88	BB	14	166.288	DIESEL 7

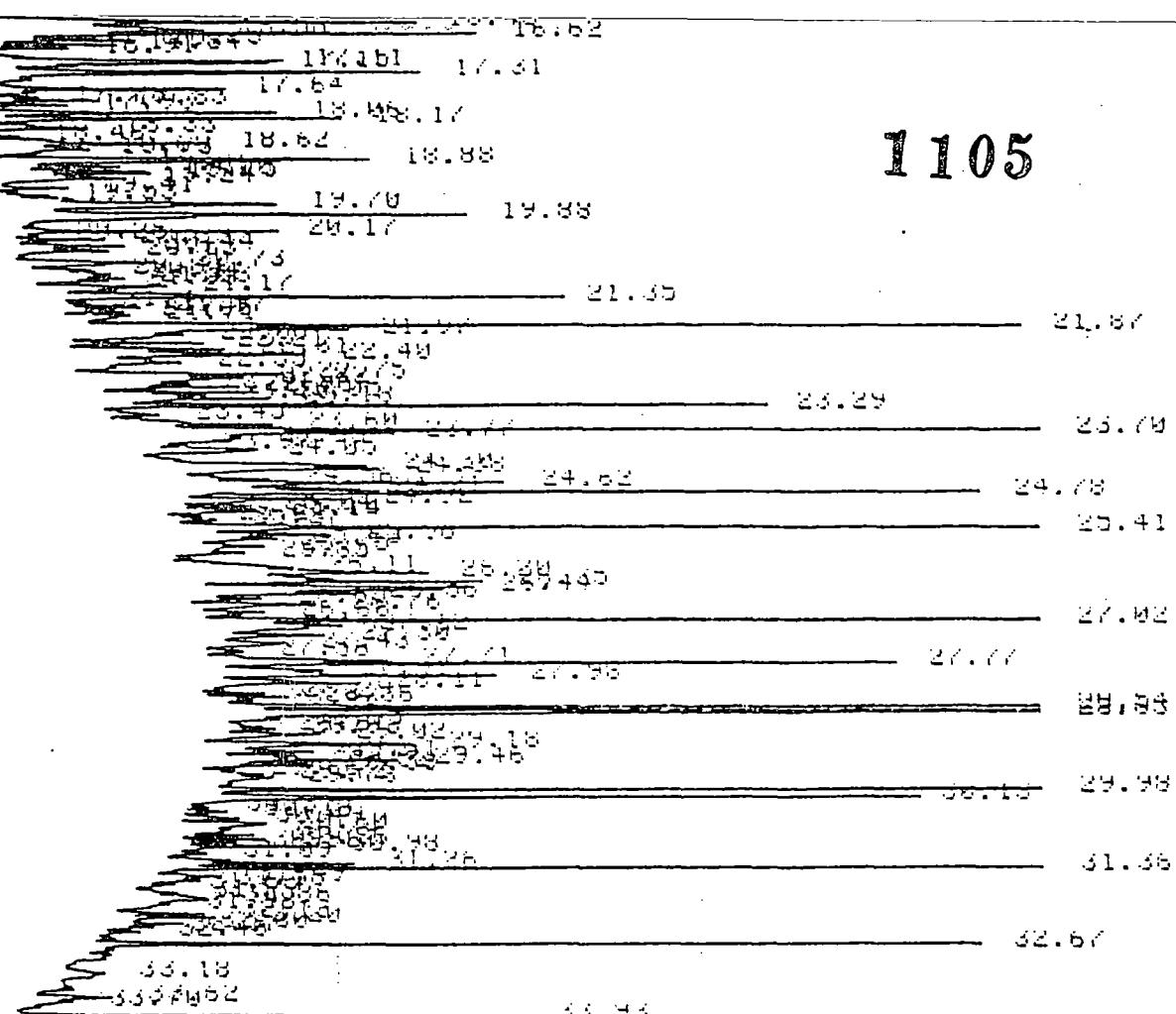
MULTIPLIER = 1  
 STD 1 MM = 5

OVEN TEMP NOT READY

R1: INIT + OFF



1105



RT: STOP RUN

KODAK 5880H SHAMPLER INJECTION @ 17:59 AUG 24, 1988

SAMPLE #: ID CODE :

4 355/416

CRS/DIESEL INTERNAL STD METHOD

1510 COMPENSATED ANALYSIS

RT	AREM	TYPE	CHL	AMOUNT	NAME
9.86	26.73	BV	1	360.352	BRASULINE 1
10.23	100.74	PY	2	351.558	BRASULINE 2
11.23	37.29	BV	3	351.622	BRASULINE 3
13.79	42.38	BV	4	349.679	BRASULINE 4
14.78	46.94	BV	5	346.216	BRASULINE 5
17.31	10.46	BV	6	336.031	BRASULINE 6
20.41	32.16	VV	7	419.983	DIESEL 1
27.02	29.27	VV	8	418.899	DIESEL 2
28.54	25.77	VV	9	414.226	DIESEL 3
28.63	43.71	VV	10	1510 1	PERISTINE
29.98	20.79	BV	11	417.111	DIESEL 4
31.36	17.43	VV	12	404.148	DIESEL 5
32.67	12.38	VV	13	424.125	DIESEL 6
33.93	6.89	BB	14	403.811	DIESEL 7

MULTIPLIER = 1

1510 1 HMT = 5

KODAK 5880H SHAMPLER INJECTION @ 17:59 AUG 24, 1988

SAMPLE #: ID CODE :

4 355/416

RT	AREA	TYPE	CHE	AMOUNT	NAME
9.86	26.73	8Y	1	355.888	UNGINOLINE 1
10.23	198.74	8Y	2	355.888	UNGINOLINE 2
11.23	37.28	8Y	3	355.888	UNGINOLINE 3
13.79	42.38	8Y	4	355.888	UNGINOLINE 4
14.78	46.94	8Y	5	355.888	UNGINOLINE 5
17.31	10.86	8Y	6	355.888	UNGINOLINE 6
20.41	32.16	YY	7	415.888	DIESEL 1
27.92	29.27	YY	8	415.888	DIESEL 2
28.54	25.77	YY	9	415.888	DIESEL 3
28.63	43.71	YY	10	1510.1	PURISLINE
29.98	28.79	8Y	11	415.888	DIESEL 4
31.36	17.43	YY	12	415.888	DIESEL 5
32.57	12.38	YY	13	415.888	DIESEL 6
33.73	6.88	88	14	415.888	DIESEL 7

1105

MULTIPLIER = 1

STD 1 RTT = 0

OVEN TEMP NOT READY

RTT INIT & OFF

RTT INIT & OFF

8.48

2.36

5.36

Sand BIK  
8/20

15.96

16.84

18.88

19.19

19.56

20.84

20.74

22.59

23.19

22.59

23.22

25.34

1105

27.18

28.92

28.63

30.34

32.40

34.29

PCP SLIDE FILM

INPE 5888H SAMPLE INJECTION @ 18:45 HUG 24, 1988

SAMPLE #: 10 CODE :

3 MET BLF 8/20

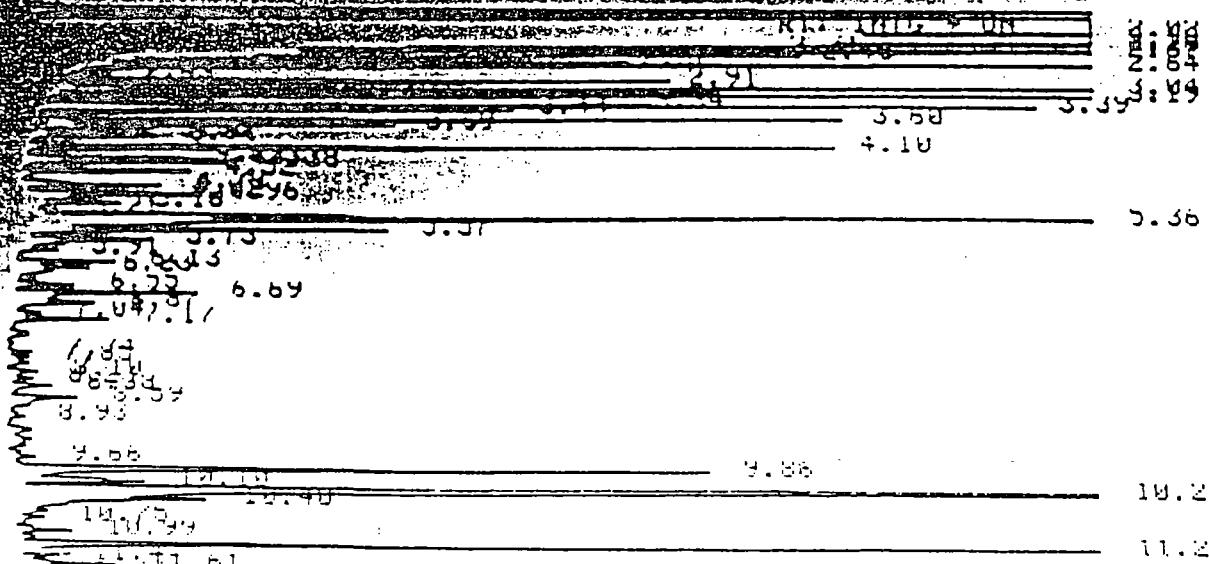
LHS/DIESEL INTERNAL STD METHOD

ISID COMPENSATED ANALYSIS

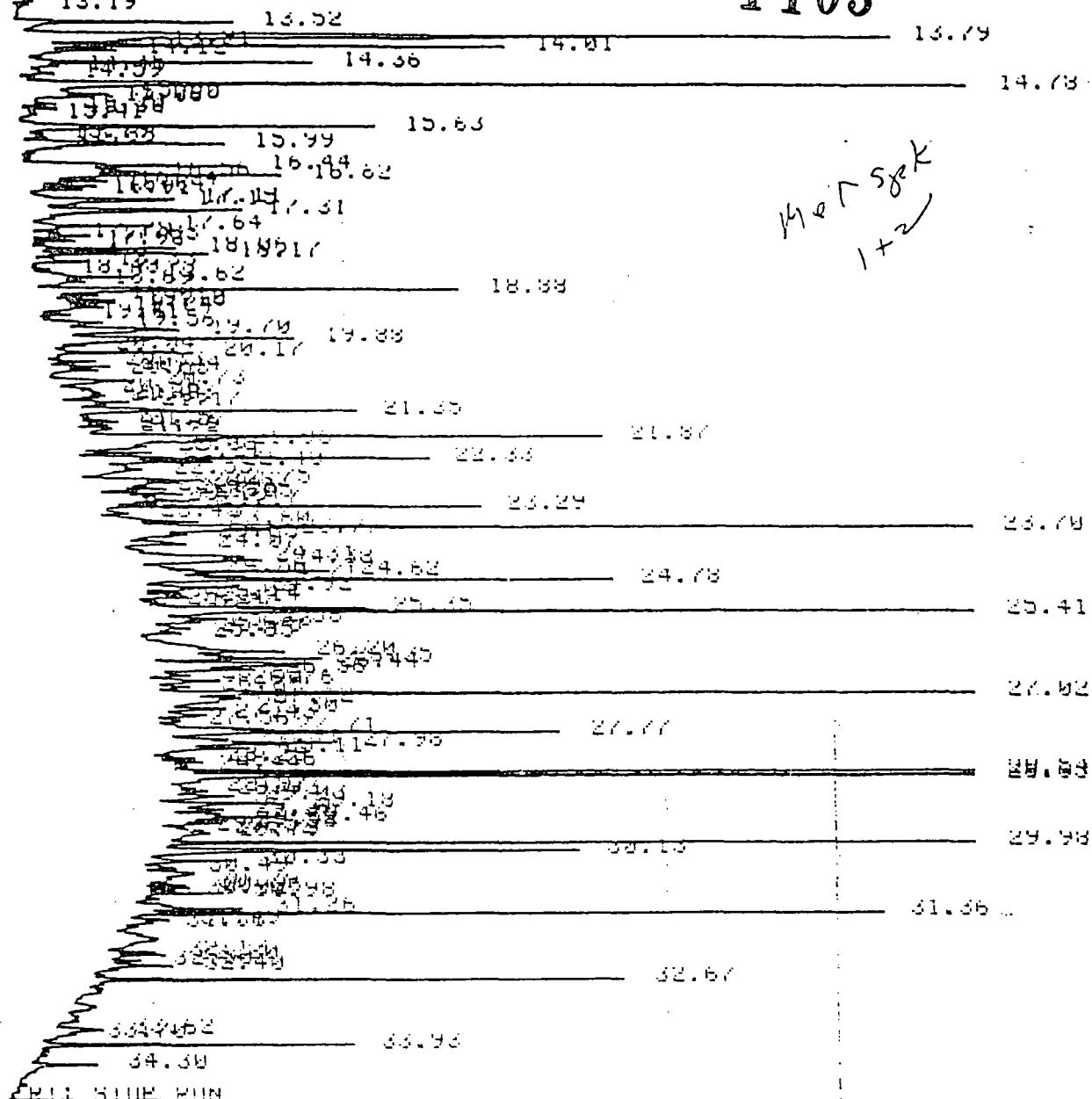
RI	AREN	TYPE	CHL	AMOUNT	NAME
15.86	1.08	BB	5	11.581	LHSULINE 5
16.84	0.52	BB	6	10.556	LHSULINE 6 } 21.18
25.34	4.23	BB	7	72.449	DIESEL 1
27.18	0.29	BB	8	4.856	DIESEL 2
28.63	19.88	BB	10	1510.1	PRISTINE
30.34	1.64	BB	11	48.199	DIESEL 4 }
32.40	1.41	BB	13	50.910	DIESEL 5 } 21.16
34.29	1.21	BB	14	86.854	DIESEL 7

MULTIPLICITY = 1.000  
STD CONC = 5.000

100% INTEGRATION



1105



Sample 5880H SHMPLE INJECTION # 19:33, HUL 24, 1988

SHMPLE #: 11 CODE :

6 RET SPK 1+2

LHS/DIESEL INTERNAL STD METHOD

1STD COMPENSATED ANALYSIS

RT	HREN	TYPE	CHL	AMOUNT	NAME
9.86	13.43	PV	1	242.057	GASOLINE 1
10.23	59.42	PV	2	239.398	GASOLINE 2
11.23	21.93	PV	3	239.331	GASOLINE 3
13.79	25.45	PV	4	252.569	GASOLINE 4
14.78	26.22	PV	5	228.176	GASOLINE 5
17.31	5.52	PV	6	217.835	GASOLINE 6
20.41	21.03	PV	7	327.765	DIESEL 1
27.02	17.89	PV	8	303.841	DIESEL 2
28.54	15.64	PV	9	388.581	DIESEL 3
28.63	33.12	VB	10	1510.1	PRISTINE
29.93	13.51	VB	11	327.018	DIESEL 4
31.36	11.26	VB	12	327.371	DIESEL 5
32.67	8.18	VB	13	338.685	DIESEL 6
33.93	4.58	VB	14	651.294	DIESEL 7

MULTIPLIER = 1  
15101 HMT = 5

RT: INIT + OFF

1105

| RT: INIT + OFF     |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 2.91               | 2.91               | 2.91               | 2.91               | 2.91               |
| 3.88               | 3.88               | 3.88               | 3.88               | 3.88               |
| 4.11               | 4.11               | 4.11               | 4.11               | 4.11               |
| 5.36               | 5.36               | 5.36               | 5.36               | 5.36               |
| 8.45 8.99 (Spiral) |
10.23	10.23	10.23	10.23	10.23
11.24	11.24	11.24	11.24	11.24
14.79	14.79	14.79	14.79	14.79
14.79	14.79	14.79	14.79	14.79
15.63	15.63	15.63	15.63	15.63
16.62	16.62	16.62	16.62	16.62
17.31	17.31	17.31	17.31	17.31
18.01	18.01	18.01	18.01	18.01
18.88	18.88	18.88	18.88	18.88
19.88	19.88	19.88	19.88	19.88
21.35	21.35	21.35	21.35	21.35
21.87	21.87	21.87	21.87	21.87
22.55	22.55	22.55	22.55	22.55
23.29	23.29	23.29	23.29	23.29
23.76	23.76	23.76	23.76	23.76
24.78	24.78	24.78	24.78	24.78
25.41	25.41	25.41	25.41	25.41
27.02	27.02	27.02	27.02	27.02
27.73	27.73	27.73	27.73	27.73
29.93	29.93	29.93	29.93	29.93
31.36	31.36	31.36	31.36	31.36
32.57	32.57	32.57	32.57	32.57
33.13	33.13	33.13	33.13	33.13
34.46	34.46	34.46	34.46	34.46
35.35	35.35	35.35	35.35	35.35
36.36	36.36	36.36	36.36	36.36
37.35	37.35	37.35	37.35	37.35
38.34	38.34	38.34	38.34	38.34
39.33	39.33	39.33	39.33	39.33
40.32	40.32	40.32	40.32	40.32
41.31	41.31	41.31	41.31	41.31
42.30	42.30	42.30	42.30	42.30
43.29	43.29	43.29	43.29	43.29
44.28	44.28	44.28	44.28	44.28
45.27	45.27	45.27	45.27	45.27
46.26	46.26	46.26	46.26	46.26
47.25	47.25	47.25	47.25	47.25
48.24	48.24	48.24	48.24	48.24
49.23	49.23	49.23	49.23	49.23
50.22	50.22	50.22	50.22	50.22
51.21	51.21	51.21	51.21	51.21
52.20	52.20	52.20	52.20	52.20
53.19	53.19	53.19	53.19	53.19
54.18	54.18	54.18	54.18	54.18
55.17	55.17	55.17	55.17	55.17
56.16	56.16	56.16	56.16	56.16
57.15	57.15	57.15	57.15	57.15
58.14	58.14	58.14	58.14	58.14
59.13	59.13	59.13	59.13	59.13
60.12	60.12	60.12	60.12	60.12
61.11	61.11	61.11	61.11	61.11
62.10	62.10	62.10	62.10	62.10
63.09	63.09	63.09	63.09	63.09
64.08	64.08	64.08	64.08	64.08
65.07	65.07	65.07	65.07	65.07
66.06	66.06	66.06	66.06	66.06
67.05	67.05	67.05	67.05	67.05
68.04	68.04	68.04	68.04	68.04
69.03	69.03	69.03	69.03	69.03
70.02	70.02	70.02	70.02	70.02
71.01	71.01	71.01	71.01	71.01
72.00	72.00	72.00	72.00	72.00
73.00	73.00	73.00	73.00	73.00
74.00	74.00	74.00	74.00	74.00
75.00	75.00	75.00	75.00	75.00
76.00	76.00	76.00	76.00	76.00
77.00	77.00	77.00	77.00	77.00
78.00	78.00	78.00	78.00	78.00
79.00	79.00	79.00	79.00	79.00
80.00	80.00	80.00	80.00	80.00
81.00	81.00	81.00	81.00	81.00
82.00	82.00	82.00	82.00	82.00
83.00	83.00	83.00	83.00	83.00
84.00	84.00	84.00	84.00	84.00
85.00	85.00	85.00	85.00	85.00
86.00	86.00	86.00	86.00	86.00
87.00	87.00	87.00	87.00	87.00
88.00	88.00	88.00	88.00	88.00
89.00	89.00	89.00	89.00	89.00
90.00	90.00	90.00	90.00	90.00
91.00	91.00	91.00	91.00	91.00
92.00	92.00	92.00	92.00	92.00
93.00	93.00	93.00	93.00	93.00
94.00	94.00	94.00	94.00	94.00
95.00	95.00	95.00	95.00	95.00
96.00	96.00	96.00	96.00	96.00
97.00	97.00	97.00	97.00	97.00
98.00	98.00	98.00	98.00	98.00
99.00	99.00	99.00	99.00	99.00
100.00	100.00	100.00	100.00	100.00

ENPL 5889H SHMPLE INJECTION @ 20:20 AUG 24, 1988

SAMPLE #: 10 CODE :

/ 5839 C 1+2

GHS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

1105

RI	AREH	TYPE	URL	AMOUNT	NAME
9.86	16.89	PP	1	252.137	GHSCULINE 1
10.23	54.84	PP	2	249.264	GHSCULINE 2
11.24	23.72	PP	3	243.510	GHSCULINE 3
13.79	27.13	PP	4	252.739	GHSCULINE 4
14.73	28.39	PP	5	239.247	GHSCULINE 5
17.31	6.03	PP	6	239.281	GHSCULINE 6
20.41	22.00	PP	7	317.688	DIESEL 1
27.82	18.79	PP	8	257.204	DIESEL 2
28.04	17.14	PP	9	313.511	DIESEL 3
28.63	35.28	PP	10	151.0	1 PETROLENE
29.98	14.24	PP	11	321.210	DIESEL 4
31.36	11.86	PP	12	321.564	DIESEL 5
32.57	8.64	PP	13	334.154	DIESEL 6
33.93	4.87	PP	14	348.488	DIESEL 7

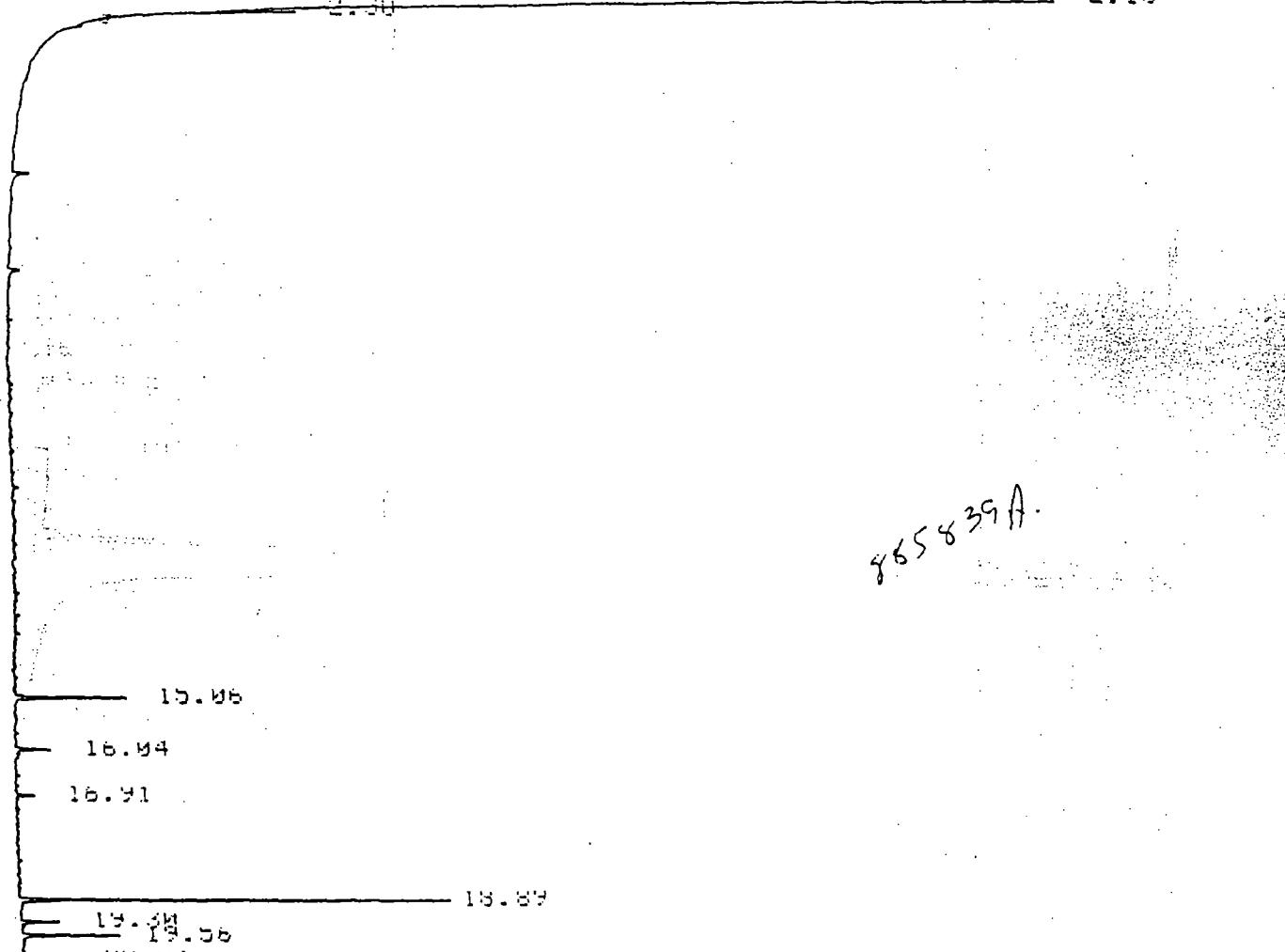
MULTIPLIER = 1

ISTD 1 HM = 5

RI: THIS + OFF

RI: THIS + OFF

8:08



29.74

22.59

22.33

23.22

23.86

1105

25.34

27.88

28.02

28.65

30.34

32.48

34.38

RTI STABE RUN

ENR 5889H SHMPFLR INJECTION @ 21:07 JUL 24, 1988

SAMPLE # : 10 CODE :

8 5889 H

CHS/DIESEL INTERNAL STD METHOD

1STD COMPENSATED ANALYSIS

RT	RRT#	TYPE	CHL	AMOUNT	NAME	
15.06	1.65	BB	5	16.122	CHSOLINE 5	10%
16.91	0.18	BB	6	8.994	CHSOLINE 6	10%
25.34	5.57	BB	7	87.515	DIESEL 1	
28.63	21.78	BB	10	151.0 1	PRISTINE	
30.34	2.31	BB	11	51.553	DIESEL 4	
32.48	1.74	BB	13	68.888	DIESEL 5	10%
34.38	1.82	BB	14	135.682	DIESEL 6	10%

MULTIPLIER = 1

1STD 1 HMI = 5

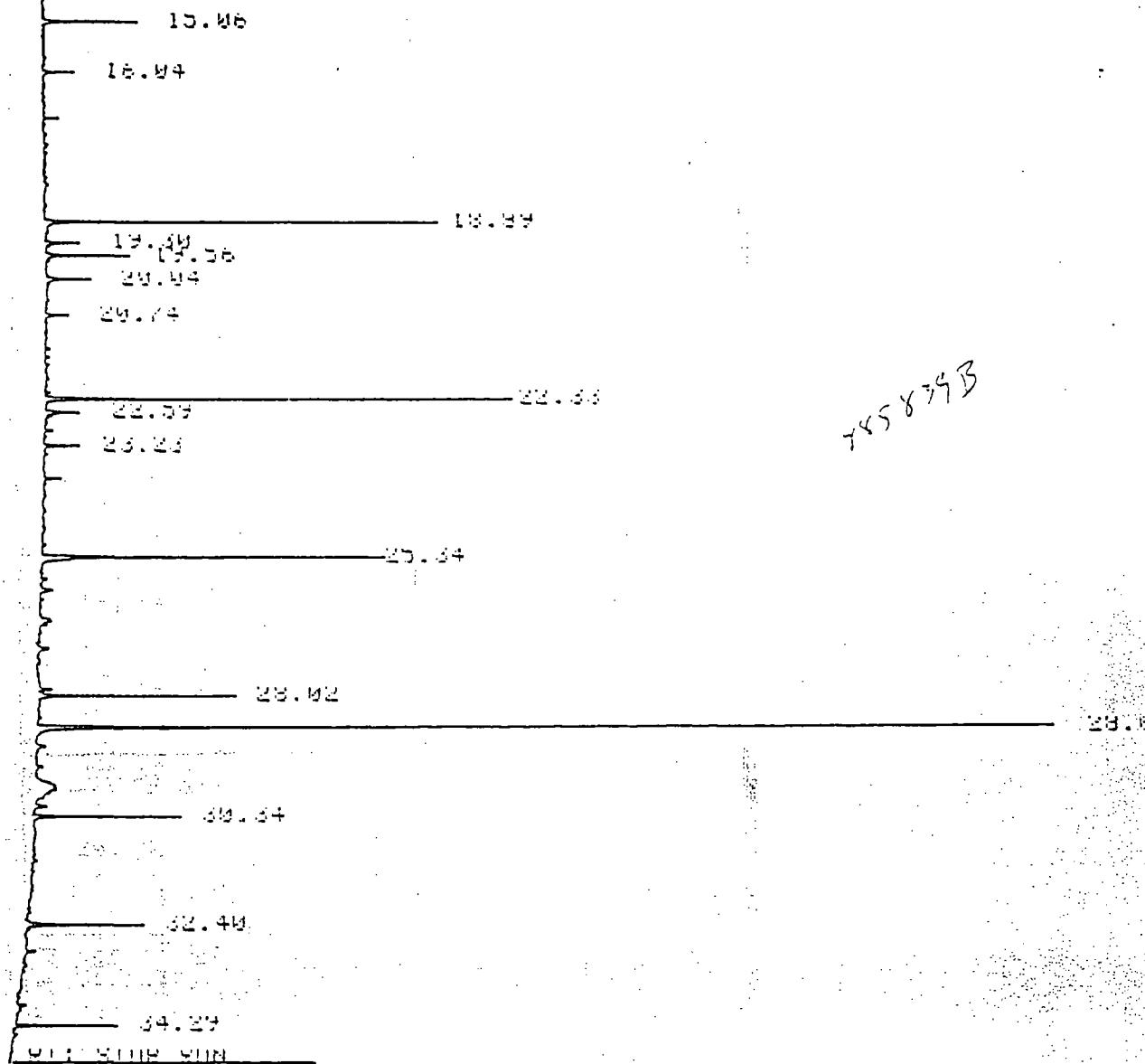
RTI: 1HMI + OFF

2.00

RTI: 1HMI + DM

8.48

1105



100% D889H SAMPLER INJECTION @ 21:54 AUG 24, 1988

SAMPLE #: ID CODE :

8 5847 8

CHRONOSEL INTERNAL STD METHOD

1010 COMPENSATED ANALYSIS

RT	AREB	TYPE	CHL	AMOUNT	NAME	Q
15.06	1.48	BB	5	15.251	UNSPECIFIED	> RT 148
16.04	0.59	BB	6	23.666	UNSPECIFIED	
20.34	0.25	BB	7	38.597	DIESEL 1	
28.03	20.74	BB	10	1510.1	PRISTINE	
30.34	2.09	BB	11	49.160	DIESEL 4	
32.49	1.56	BB	13	58.384	DIESEL 5	
34.29	1.43	BB	14	110.806	DIESEL 7	) RT 143

MULTIPLIER = 1

1010 T MMF = 0

1105

2.37

15.86

16.84

16.91

18.41

17.36

20.84

20.74

18.83

22.07

23.25

23.86

22.43

23.50

28.82

28.64

38.54

42.48

44.38

41.41 41.42 41.43

88 5840

## INTERFACIAL STANDBY METHOD

## ISTD COMPENSATED ANALYSIS

RT	REF	TYPE	URL	AMOUNT	NAME	1105
15.06	1.17	BB	5	11.666	UNSPECIFIED	7 RTM
16.91	0.16	BB	6	7.218	UNSPECIFIED	7 RTM
20.35	4.48	BB	7	69.745	DIESEL 1	
28.64	21.43	BB	10	181.0	PRISTANE	
30.34	1.77	BB	11	40.176	DIESEL 4	
32.49	1.49	BB	13	59.913	DIESEL 6	7 RTM
34.39	1.44	BB	14	180.234	DIESEL 7	

MULTIPLIER = 1

181.0 L HPL = 0

RT: 1105 = 0.00

0.00

RT: 1105 = 0.00

0.00

245401

15.26

16.04

16.91

18.89

18.41, 17.56

20.34

20.74

22.33

23.23

24.36

22.33

25.13

28.82

28.64

38.34

1105

32.48

34.38

WILSON RUN

ANALYSIS SAMPLE INJECTION # 23123 JULY 24, 1988

SAMPLE #: ID CODE :

11 5641

CHRONOLOGICAL INTERNAL STD METHOD

ISOTOPE COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME
15.86	1.55	88	5	10.684	LEADLINE 5 ) R1M
16.91	0.23	88	6	10.842	LEADLINE 6 ) R1M
20.35	6.04	88	7	190.215	DIESEL 1 ) R1M
28.64	21.04	88	10	181.0	PRISTANE ) R1M
30.34	2.41	88	11	55.834	DIESEL 4 ) R1M
32.48	2.08	88	13	81.553	DIESEL 6 ) R1M
34.38	1.37	88	14	157.887	DIESEL 7 ) R1M

MULTIPLIER = 1

ISOTOPE 1/HM1 = 5

RT: 100% ± 0.01

RT: 100% ± 0.01

± 0.01

2.00

15.86

16.94

17.41  
20.84  
23.74

18.89

22.59  
23.23  
23.86

22.53

1105

88542

23.50

22.53 22.52

23.64

30.54

32.48

34.38

RT: 50PPM

MPA 3830H: SAMPLE INJECTION @ 88:10 AUG 25, 1988

SAMPLE #: ID CODE : 1

12 5842

CHS/DIESEL INTERNAL STD METHOD

1010 COMPENSATED ANALYSIS

RT	AREP	TYPE	URL	AMOUNT	NAME
15.06	1.51	88	5	14.981	CHSOLINE 5
16.04	0.51	88	6	23.132	CHSOLINE 6
20.55	0.65	88	7	99.682	DIESEL 1
28.64	21.44	88	10	1510 1	PRISTINE
30.54	2.34	88	11	53.215	DIESEL 4
32.48	1.78	88	13	68.119	DIESEL 6
34.38	1.79	88	14	155.836	DIESEL 7

7 RTM

7 RTM

MULTIPLIER = 1

1010 1 HPL = 5

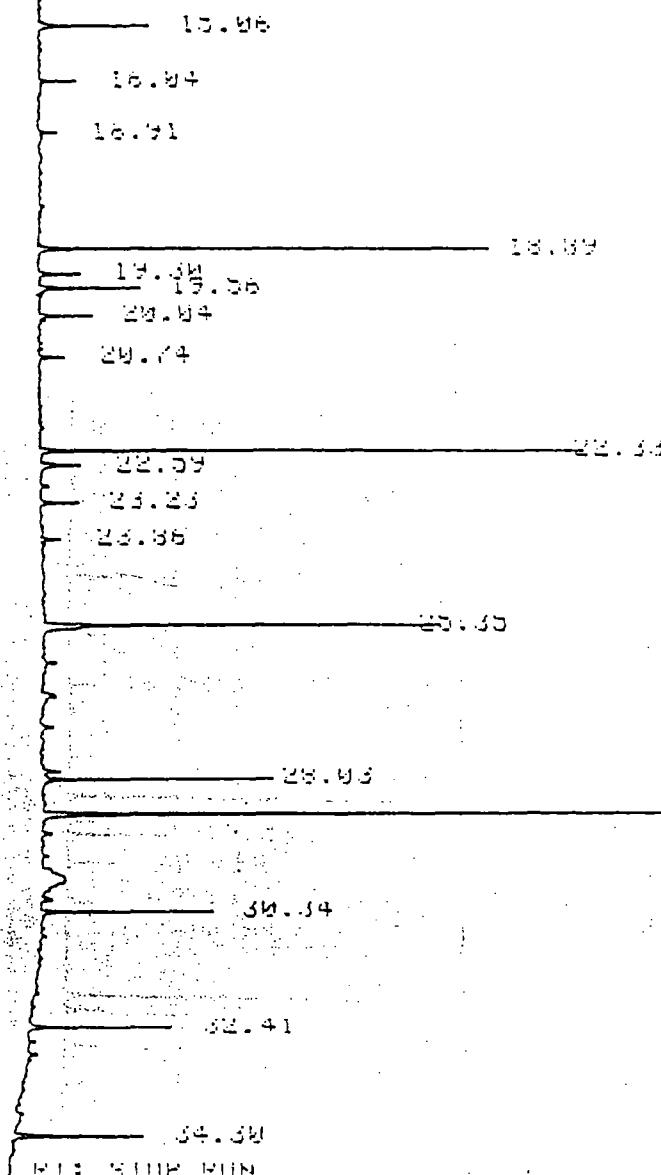
RT: 1010 = OFF

RT: 1010 = OFF

8:48

1105

945843



INSTR 5880H - SHAMPLER INJECTION # 811901 - AUG 25, 1988

SAMPLE #: 10 CODE : 10

10 5843

CHEM/DIESEL INTERNAL STD METHOD  
1STD COMPENSATED ANALYSIS

RT	AREAS	TYPE	CAL	AMOUNT	NAME	RT
15.96	1.48	88	0	0.4,396	CHOLESTEROL	7 RTM
16.91	0.22	88	0	18.458	CHOLESTEROL	0
20.60	5.72	88	1	91.158	CHOLESTEROL	1
23.84	20.82	88	1	15.101	CHOLESTEROL	
23.84	4.29	88	1	31.458	CHOLESTEROL	4
23.84	1.09	88	1	1.458	CHOLESTEROL	4

1ST D 1 HMI = 5

R1: INIT + OFF

1105 1105

R1: INIT + OFF

8:46

2.34

2.37

2.41

15.86

16.84

16.91

18.89

19.48

19.58

20.04

20.74

22.57

23.23

23.86

22.83

24.5841

22.60

23.53

23.84

24.34

24.40

LAST SHOT RUN

1105

KODAK 5889H SAMPLER INJECTION @ 01:48 HUB 25, 1986

SAMPLE #: 10 CODE :

14 5844

CHS/DIESEL INTERNAL STD METHOD

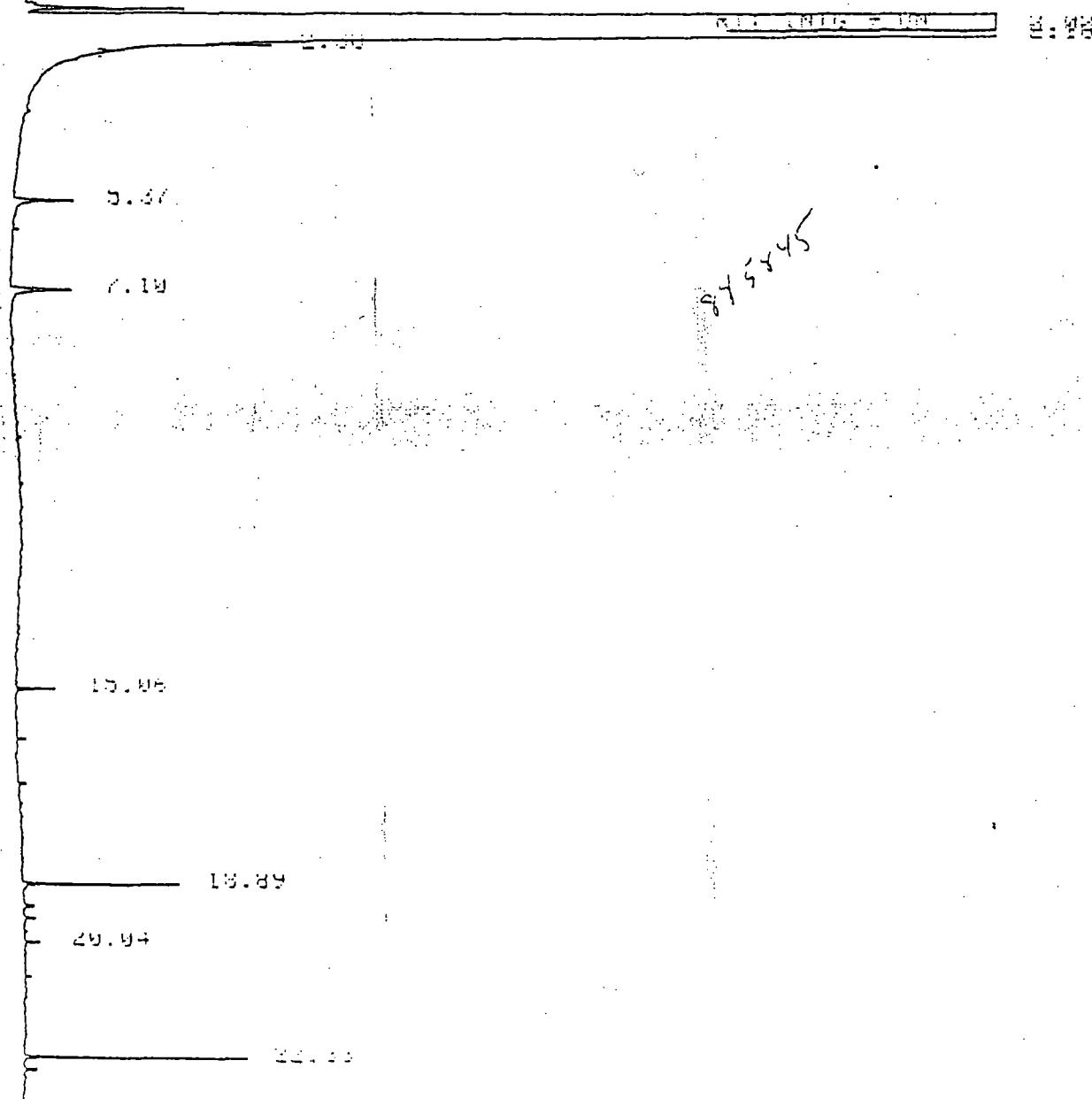
ISSTD COMPENSATED ANALYSIS

RT	AREB	TYPE	CHL	AMOUNT	NAME	781M
15.96	1.49	88	5	15.442	CHSOLINE 5	781M
16.91	0.18	88	6	8.760	CHSOLINE 6	
23.35	0.32	88	7	39.462	DIESEL 1	
28.64	20.52	88	10	151.0	DIESEL 1	
38.44	2.24	88	11	56.242	DIESEL 4	781M
32.40	1.84	88	13	77.930	DIESEL 6	
34.38	1.66	88	14	129.760	DIESEL 7	781M

MULTIPLIER = 1

ISSTD 1 MM = 0

RT: INH. + OFF



25.35

1105

28.03

28.64

38.34

32.41

34.38

211 5845 5845

KAP 1 5888H SHAPLER INJECTION # 82865 AUG 25, 1988

SAMPLE #: ID CODE :

15 5845

GAS/DIESEL INTERNAL STD METHOD

1610 COMPENSATED ANALYSIS

RT	AREA	TYPE	CHL	AMOUNT	NAME	
15.86	48.63	BB	5	6.364	UNBULINE 5	7 PTH
18.87	2.24	BB	6	111.387	UNBULINE 6	
23.35	2.63	BB	7	42.418	DIESEL 1	
28.64	21.18	BB	18	1510 1	PRISTANE	
30.34	1.29	BB	11	27.644	DIESEL 4	
32.41	0.92	BB	13	37.548	DIESEL 6	7 PTH
34.38	0.92	BB	14	61.127	DIESEL 7	

MULTIPLIER = 1.000

1610 I.HM = 5

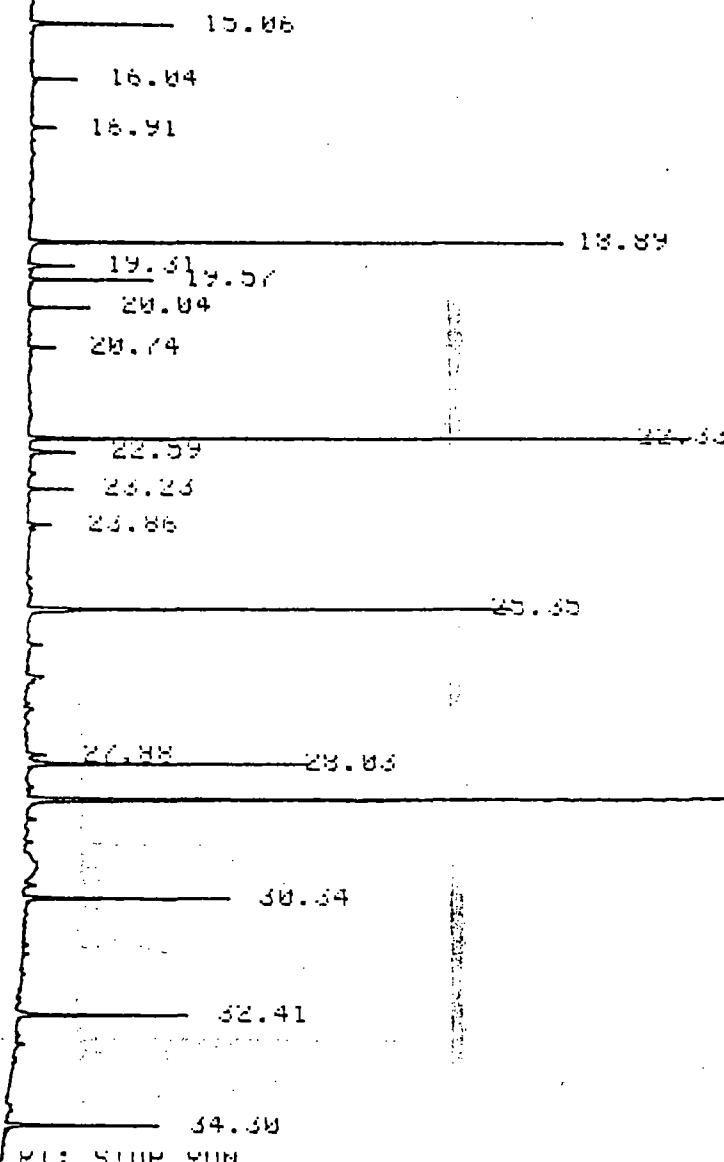
RT: AREA: TYPE: CHL:

2.00

RT: AREA: TYPE: CHL:

2.00

1105



\* KHP 5880H SHMPLE INJECTION # 03:21 HUG 25, 1988

SHMPLE #: ID CODE : 10

15 03:21 5846

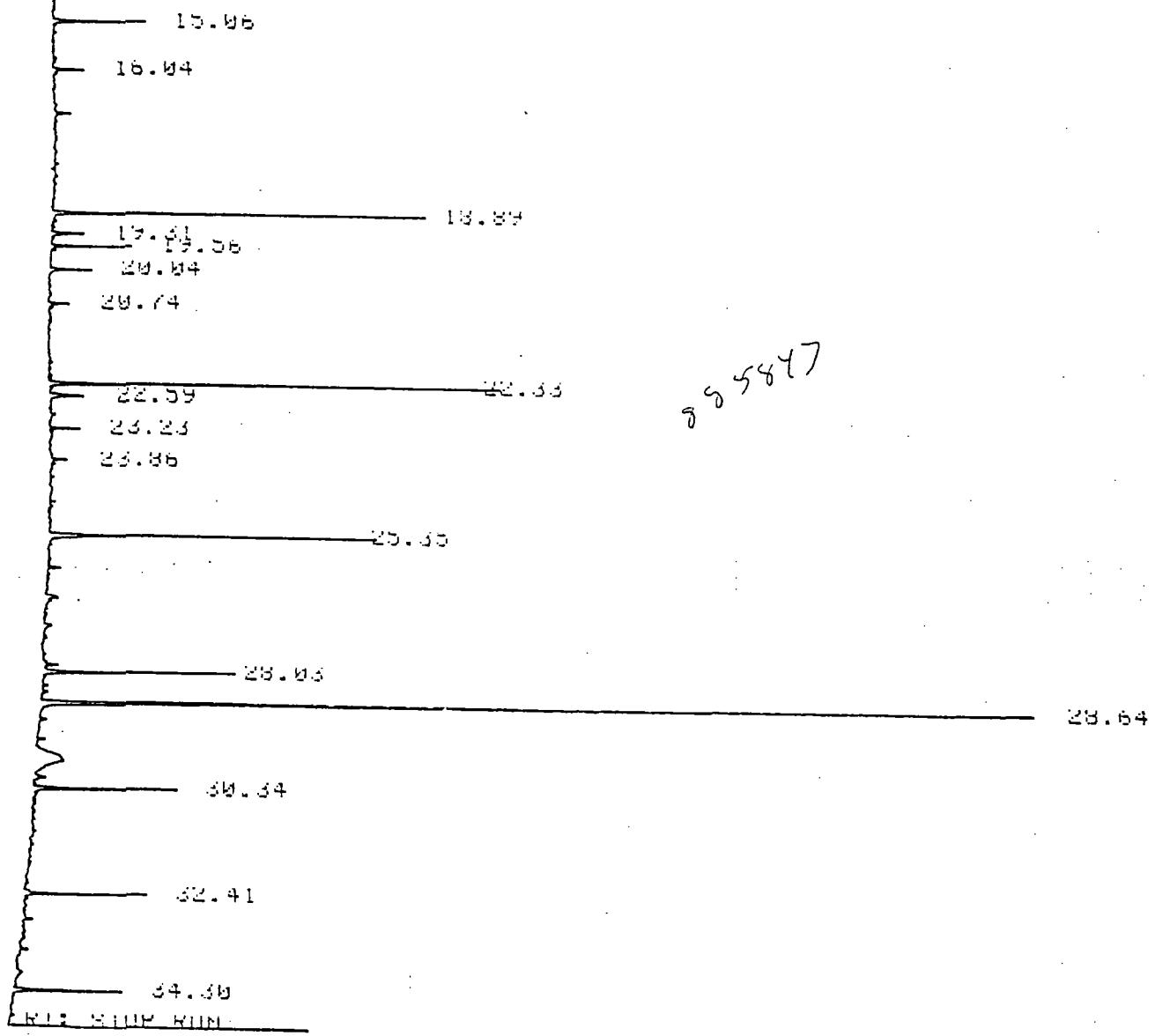
\* GH3/DIESEL INTERNAL STD METHOD  
1STD COMPENSATED ANALYSIS

RT	AREH	TYPE	URL	AMOUNT	NAME	RTMA
15.06	1.98	BB	5	20.796	UNSPECIFIED 5	
16.91	0.38	BB	6	14.532	UNSPECIFIED 6	
20.59	6.69	BB	7	117.378	DIESEL 1	
28.64	20.31	BB	10	181.0 1	PETROLEUM	
30.34	2.73	BB	11	65.576	DIESEL 4	
32.41	2.38	BB	13	108.162	DIESEL 6	7 RTMA
34.39	2.09	BB	14	109.119	DIESEL 7	

MULTIPLIER = 1  
1STD 1 HMI = 5

RT: INIT → OFF

1105



1001 5850H SAMPLE INJECTION @ 04:00 AUG 25, 1968  
SAMPLE #: ID CODE :  
17 5847  
GASEOUS INTERNAL STD METHOD  
1510 COMPENSATED ANALYSIS

16.84	0.49	88	6	22.996	DIESEL 6
20.35	5.28	88	7	86.364	DIESEL 1
28.64	20.89	88	18	1518	1 PRISTINE
30.34	2.08	88	11	48.431	DIESEL 4
32.41	1.63	88	13	69.325	DIESEL 8
34.38	1.63	88	14	124.119	DIESEL 7

781M

1105

MULTIPLIER = 1

ISLE 1 HMI = 5

RTE INIT + OFF

RTE INIT + OFF

8.48

27.00

15.86

16.84

16.91

18.89

19.41

19.57

20.04

20.74

22.59

23.23

23.86

24.44

86548

25.35

27.03 28.03

28.64

42.41

34.38

ALL SITES RUN

1105

KODAK 5880R SAMPLE INJECTION # 84154 AUG 25, 1988  
SAMPLE #: ID CODE :

18 5848

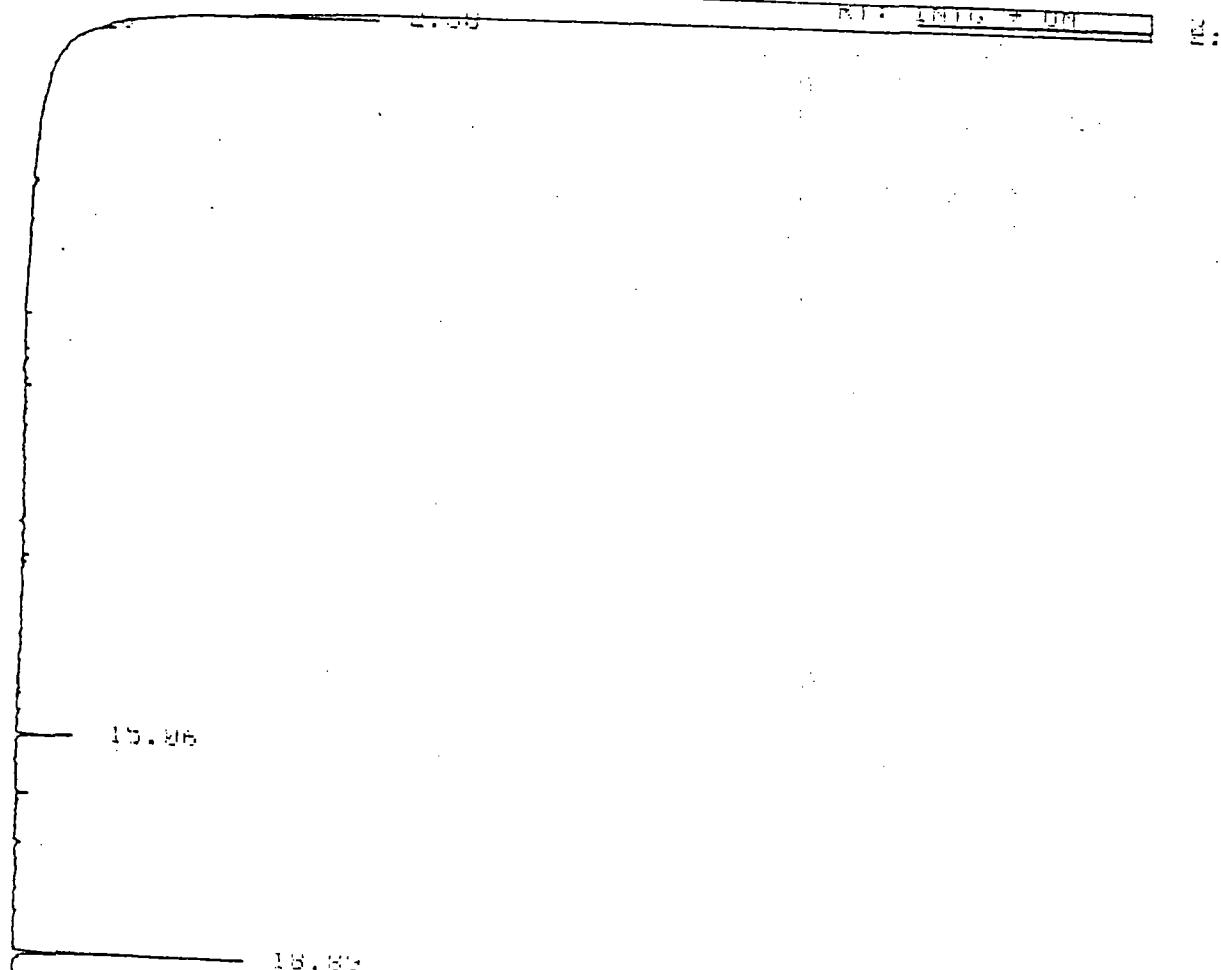
CHEM/DIESEL INTERNAL STD METHOD  
ISID COMPENSATED ANALYSIS

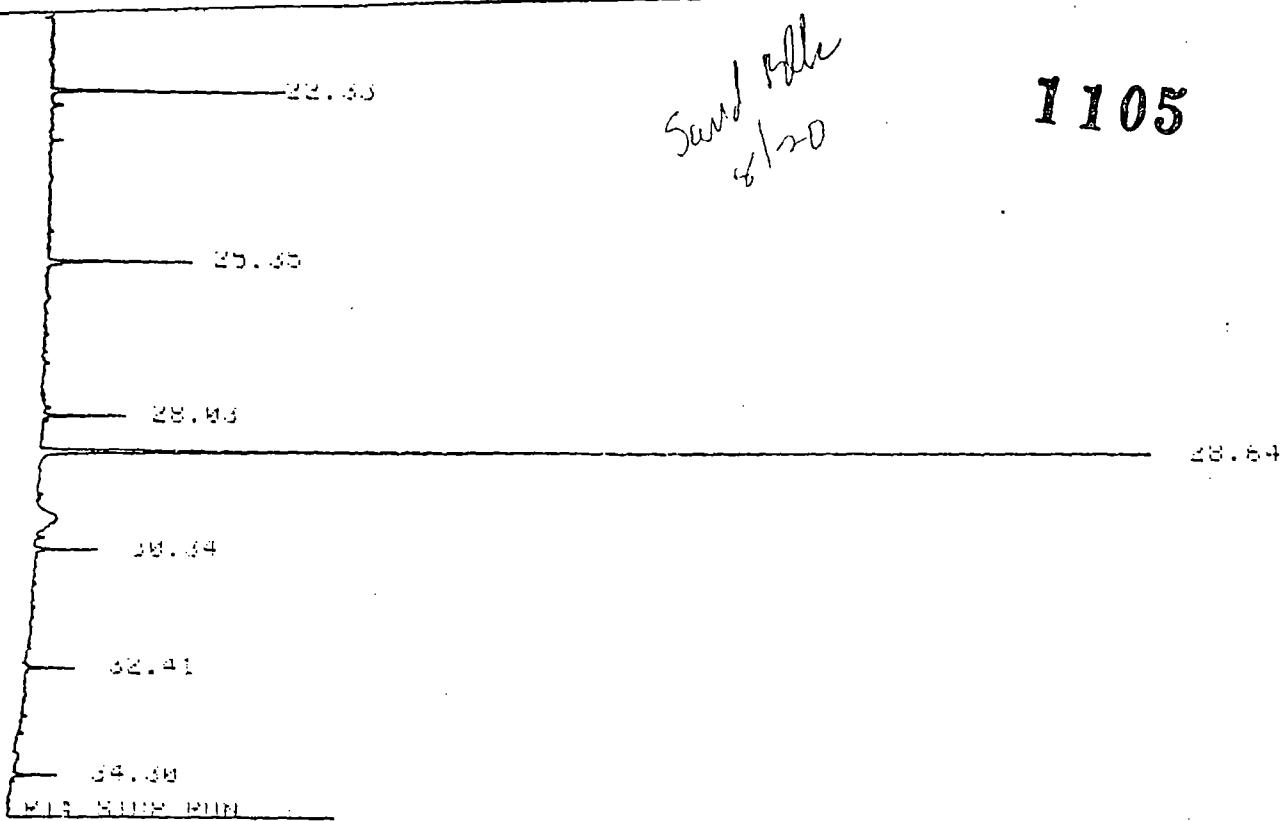
RT	AREA	TYPE	CHL	AMOUNT	NAME
10.86	1.44	88	5	14.063	UNSATURATED 5
18.31	9.21	88	6	5.692	UNSATURATED 6
23.35	3.73	88	7	94.105	DIESEL 1
28.64	21.04	88	10	151.9 1	PRISTANE
30.34	2.33	88	11	53.939	DIESEL 4
32.41	1.87	88	13	76.465	DIESEL 6
34.38	1.78	88	14	139.664	DIESEL 7

MULTIPLIER = 1

ISID 1 MMU = 5

RT: INIT + OFF





KODAK 2860H SHAPLER INJECTION # 05141 HUG 25/1 1968

SAMPLE #: 19 CODE :

19 MET BLK 8/28

CHS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREM	TYPE	URL	AMOUNT	NAME
13.96	0.84	BB	5	0.684	Gasoline 5
18.89	0.13	BB	6	185.248	Gasoline 6
25.63	2.19	BB	7	36.948	Diesel 1
28.64	20.63	BB	10	181.0	Paraffine
30.34	0.85	BB	11	20.985	Diesel 4
32.41	0.62	BB	13	25.946	Diesel 6
34.60	0.65	BB	14	44.456	Diesel 7

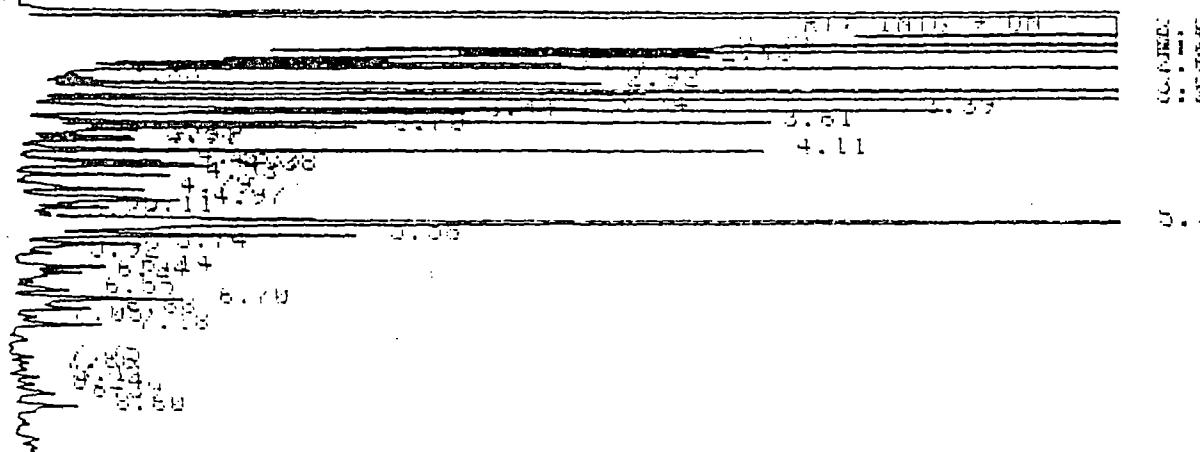
181.0

785.0

MULTIPLIER = 1

ISTD 1 MM = 0

RT: 1910.2 OFF



~~11.90~~  
~~11.89~~  
~~12.00~~  
~~12.00~~

11.24

13.52	13.79
14.12	14.37
14.39	14.66
14.88	15.03
15.88	16.00
16.14	16.65
16.62	17.32
17.16	17.54
17.18	17.87
18.03	18.33
18.63	19.00
19.03	19.88
20.17	20.33
21.35	21.87
22.33	23.23
23.78	24.78
24.83	25.13
24.84	25.62
25.81	26.70
26.35	27.02
26.44	27.77
26.54	28.04
26.63	29.98
26.64	31.36
26.73	32.67
33.64	35.95
34.39	35.95

~~ALL TIME RUN~~

*865850C (spiked)  
142*

ANALYSIS SAMPLE INJECTION #: 06127 AUG 20, 1988

SAMPLE #: 10 CODE #

CG 0888 C 1+2

CHEM/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREM	TYPE	CHL	AMOUNT	NAME
9.87	16.82	8Y	1	236.687	GASOLINE 1
10.23	36.34	8Y	2	234.358	GASOLINE 2
11.24	19.69	8Y	3	234.358	GASOLINE 3
13.79	24.30	8Y	4	273.361	GASOLINE 4
14.79	24.52	8Y	5	223.492	GASOLINE 5
17.32	4.95	88	6	212.915	GASOLINE 6
25.41	18.64	8Y	7	313.875	DIESEL 1
27.02	16.43	8Y	8	308.578	DIESEL 2
28.54	16.61	8Y	9	286.988	DIESEL 3
28.64	20.19	88	10	1510.1	PRISTANE
29.00	17.27				

32.67 7.29 88 13 321.917 DIESEL 6  
33.93 6.99 88 14 316.300 DIESEL 7

MULTIPLIER = 1  
(STD 1 MM) = 0

1105

R/T: INIT + OFF

R/T: INIT + ON 8.98

2.01

885850A

15.06

16.04

18.09

19.01

19.07

20.04

20.74

22.03

23.03

23.05

25.05

27.08

28.05

28.64

30.44

34.38

R11 SIDE RUN

XNP 1 5880H SAMPLER INJECTION # 87114 AUG 25, 1988

SAMPLER # : 10 CODE :

21 5880 H

CRH/DIESEL INTERNAL STD METHOD

ISOTO COMPENSATED ANALYSIS

1105

RT	HRH	TYPE	CHL	AMOUNT	NAME
15.96	1.44	RR	5	14.327	Gasoline 5 } RT 88
16.84	0.42	RR	6	18.037	Gasoline 6 }
20.30	0.19	RR	7	96.481	Diesel 1
28.64	21.47	RR	18	151.0	PXIGRINE
30.34	2.48	RR	11	56.232	Diesel 4 }
32.41	2.41	RR	13	96.217	Diesel 6 } RT 88
34.38	1.88	RR	14	144.451	Diesel 7 }

MULTIPLIER = 1

ISOTO 1 HRH = 5

R11 INIC + OFF

R11 INIC + OFF

8:46

885850B

15.96

16.84

18.89

19.14.58

19.194

20.74

22.59

22.59

1105

25.30

28.64

28.34

32.41

34.30

RT: 2.008 RUN

LORI 0886H SAMPLE INJECTION # 98101 AUG 20, 1988

SAMPLE #: 10 CODE #  
22 0886 H

CRS/DIESEL INTERNAL STD METHOD

ISOTO COMPENSATED ANALYSIS

RT	AREH	TYPE	CHL	AMOUNT	NAME
15.06	1.40	BB	3	14.148	CRSULINE 532786
16.04	0.47	BB	6	21.755	CRSULINE 632786
20.35	0.22	BB	7	86.931	DIESEL 1
28.64	21.10	BB	10	181.0	PRISTINE
30.34	2.16	BB	11	49.767	DIESEL 4
32.41	2.11	BB	13	86.787	DIESEL 5 } 21.76
34.30	1.74	BB	14	133.480	DIESEL 7 }

MULTIPLIER = 1

ISOTO 1 RT = 0

PERK WIDTH

T ERROR: NUMBER EXPECTED

LIST PERK WIDTH

PERK WIDTH = 0.08

LIST REJECT

T ERROR: UNLISTABLE SETPOINT

RT: INIT + OFF

RT: INIT + OFF 2.00

1105

15.86	885849
16.84	
17.41	18.87
17.57	
20.84	
20.74	
22.59	23.55
23.23	
23.86	
25.30	
28.83	28.84
30.34	
32.41	
34.48	
<u>END OF RUN</u>	

INFO: 0888H - SAMPLE INJECTION #: 885849 - HUL 25, 1988

SAMPLE #: 10 CODE #:  
23 5849

GHS/DIESEL INTERNAL STD METHOD  
STD COMPENSATED ANALYSIS

RT	AREA	TYPE	URL	QUANT.	NAME
15.86	1.82	BB	5	19.1370	GHSOLINE 2 2 20.076
16.84	0.52	BB	5	20.1171	GHSOLINE 5 3 20.076
20.84	5.32	BB	7	21.4721	DIESEL 1
20.84	20.84	BB	10	21.4721	DIESEL 1
20.84	2.10	BB	11	21.8666	DIESEL 4
32.41	1.91	BB	13	21.8716	DIESEL 6 0.076

MULTIPLIER = 1  
1ST IN HMI = 5

R11 16116 + UHF

1105

GC-1000  
GC-1000  
GC-1000

			15.11 + 18.16 + 0.01	
			3.51	
			3.81 - 3.43	
			4.11	
				5.37
			6.14	
			6.52 / 0.78	
			7.12	
			8.11	
			8.64	
			9.87	
				10.24
			11.04	
			11.1362	11.24
			12.589	
			12.88	
			13.03	
			13.13 14.82	13.63
			13.50	
			13.64	
			16.98	
			18.5753	
			19.14 19.32	
			19.36	
			19.47	
			19.65	
			19.88	
			19.99 19.88	
			20.11	
			20.33	
			20.13 21.63	
			21.34	21.88
			21.42	
			21.88	
			22.00	
			22.61	
			23.39	
			23.68 24.71	
			24.43	
			24.53 24.32	24.73
			24.84	
			25.26	
			25.53	
			25.73	26.32
			26.31	
			26.41 26.77	
			26.52	
			26.64	
			26.84	
			27.04	
			27.23	
			27.43	
			27.64	
			28.05	
			28.57	
			30.85	
			33.53	

R1: 1411, + 0.00

1105

R1: 1411, + 0.00

2.18

4.68

6.08

8.12 40.40

9.55

14.02

14.02 14.02

14.02

14.02 14.02

14.02

STANDARD  
SOLVENT  
14.02

11.68

12.65

12.87

13.18

13.38

13.58

13.78

13.98

14.18

14.38

14.58

14.78

14.98

15.18

15.38

15.58

15.78

15.98

16.18

16.38

16.58

16.78

16.98

17.18

17.38

17.58

17.78

17.98

18.18

15.99

15.64

15.74

17.63

19.52

20.18

19.37

28.63

41.88

5880H SAMPLER INJECTION # 13132 AUG 25, 1988

SAMPLE #: 10 CODE :  
28 STUD. SOLV  
DIESEL INTERNAL STD METHOD  
COMPRENSHED ANALYSIS

1105

RT	AREA	TYPE	CHL	AMOUNT	NHME
4.30	8.45	BB	1	8.581	UNSPECIFIED 1
4.37	8.21	BV	2	8.923	UNSPECIFIED 2
4.45	8.47	BB	3	5.757	UNSPECIFIED 3
4.52	7.57	VV	4	74.946	UNSPECIFIED 4
4.60	8.89	BV	5	39.350	UNSPECIFIED 5
4.67	2.67	VV	6	136.350	UNSPECIFIED 6
4.74	21.87	BB	19	181.0	PRISTINE
4.86	1.37	BB	12	47.869	DIESEL 5

MULTI = 1

RT ARI = 5

• 1073 0889H SAMPLE INJECTION # 09124 AUG 25, 1988

1105

• SAMPLE #: 10 CODE :

24 142/166

• GRS/DIESEL INTERNAL STD METHOD

ISOTOPE COMPENSATED ANALYSIS.

RT	AREA	TYPE	CHL	AMOUNT	NAME
9.87	9.88	88	1	158.383	UNSPECIFIED 1
10.24	36.87	87	2	158.534	UNSPECIFIED 2
11.24	16.46	88	3	157.542	UNSPECIFIED 3
13.79	12.57	88	4	158.560	UNSPECIFIED 4
14.79	16.26	88	5	159.517	UNSPECIFIED 5
17.32	6.48	88	6	151.522	UNSPECIFIED 6
23.41	12.51	87	7	158.497	DIESEL 1
27.92	18.42	87	8	154.416	DIESEL 2
28.54	9.18	87	9	154.258	DIESEL 3
28.64	27.62	88	10	151.0 1	PETROLEUM
29.98	8.13	88	11	177.928	DIESEL 4
31.38	6.55	88	12	172.528	DIESEL 5
32.67	4.57	88	13	173.758	DIESEL 6
33.93	2.67	88	14	164.453	DIESEL 7

MULTIPLIER = 1

ISOTOPE 1-HRT = 0

ERPI 3880A SAMPLER INJECTION @ 13:59 APR 15, 1998  
SAMPLE #: ID CODE :

1 P/P  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

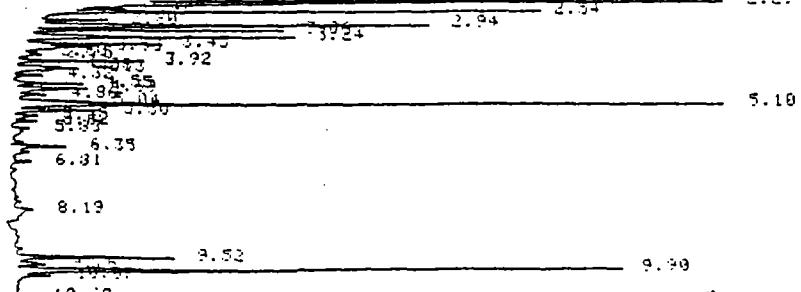
RT	AREA	TYPE CAL	AMOUNT	NAME
15.60	0.31	BB	5	6.181 GASOLINE 5
25.14	0.69	BB	7	16.371 DIESEL 1
29.41	38.30	BB	10	13TD 1 PRISTANE
29.91	0.41	BB	11	14.090 DIESEL 4-KT-10
33.70	0.32	BB	14	26.692 DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INITG + OFF

RT: INITG - ON

2:19



RT: 1000 - ON

2.19

3.43	3.92	3.94
4.35	5.55	
5.85	6.19	
6.35		
6.81		
8.19		
9.52		9.90
10.68	10.94	
11.32		
12.23		
12.61		
13.27	13.54	
14.13		14.55
15.49		
16.22		
16.24	16.19	
16.77	17.35	
18.40		
18.45		
19.13		
20.43		
20.81		
21.13		
21.55		
22.89	22.17	
23.53		
23.97		
23.48		
24.43		
24.56	24.56	
25.33	25.19	
25.78		
26.79		
27.55		
28.31		28.41
29.25		
29.90	29.75	
30.57		
31.04	31.13	
32.44		
33.69		
34.02		

1105

5.10

7/6/88 9 AM  
G/L  
S. M. R.

800

## EHP# 5880A SAMPLER INJECTION @ 19:46 APR 15, 1988

SAMPLE #: ID CODE :

2 IUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.52	5.29	B8	1	72.187 GASOLINE 1
9.90	22.72	PV	2	73.498 GASOLINE 2
10.94	9.39	B8	3	72.576 GASOLINE 3
13.54	10.86	BP	4	75.768 GASOLINE 4
14.55	11.52	B8	5	73.060 GASOLINE 5
17.10	2.67	B8	6	75.343 GASOLINE 6
25.19	3.99	B8	7	92.001 DIESEL 1
26.73	3.28	B8	8	84.243 DIESEL 2
28.31	3.43	PV	9	99.175 DIESEL 3
28.41	40.32	PV	10	ISTD 1 PRISTANE
29.75	2.63	B8	11	86.229 DIESEL 4
31.13	2.44	PV	12	99.463 DIESEL 5
32.44	2.14	B8	13	92.429 DIESEL 6
33.69	2.01	B8	14	62.347 DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 30.18

## EHP# 5880A SAMPLER INJECTION @ 19:46 APR 15, 1988

SAMPLE #: ID CODE :

2 IUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.52	5.29	B8	1	71.639 GASOLINE 1
9.90	22.72	PV	2	71.632 GASOLINE 2
10.94	9.39	B8	3	71.639 GASOLINE 3
13.54	10.86	BP	4	71.639 GASOLINE 4
14.55	11.52	B8	5	71.639 GASOLINE 5

CO	RT	AREA	TYPE	CAL	AMOUNT	NAME
	9.52	5.26	B6	1	71.639	GASOLINE 1
	9.99	22.72	PV	2	71.639	GASOLINE 2
	10.94	8.39	B6	3	71.639	GASOLINE 3
	13.54	10.86	BP	4	71.639	GASOLINE 4
	14.55	11.52	B6	5	71.639	GASOLINE 5
	17.19	2.67	B6	6	71.639	GASOLINE 6
	25.19	3.99	B6	7	83.908	DIESEL 1
	26.79	3.28	B6	8	83.908	DIESEL 2
	28.31	3.43	BV	9	83.908	DIESEL 3
	28.41	40.32	BV	10	ISTD 1	PRISTANE
	29.75	2.63	B6	11	83.908	DIESEL 4
	31.13	2.44	B6	12	83.908	DIESEL 5
	32.44	2.14	B6	13	83.908	DIESEL 6
	33.69	2.91	B6	14	83.908	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG = OFF

© SURECO INC. Burlington, PA Cat No 11897 Revd. Cat No 11898 Date of 10/97

010

KHP1 5880A SAMPLER INJECTION @ 20:32 APR 15, 1988

SAMPLE #: ID CODE :

3 2UL/L C/D

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	11.41	BV	1	151.108	GASOLINE 1
9.99	45.21	PV	2	142.661	GASOLINE 2
10.93	17.17	B6	3	140.272	GASOLINE 3
13.54	21.92	BV	4	139.543	GASOLINE 4
14.55	23.51	B6	5	141.030	GASOLINE 5

1105

G10  
STANDED  
143168 RPM

RT AREA TYPE CAL AMOUNT NAME  
 9.52 1.41 BV 1 151.198 GASOLINE 1  
 9.99 46.21 PV 2 142.661 GASOLINE 2  
 10.93 17.17 BB 3 140.272 GASOLINE 3  
 13.54 21.02 BV 4 139.543 GASOLINE 4  
 14.54 23.51 BB 5 141.099 GASOLINE 5  
 17.99 5.40 BB 6 134.391 GASOLINE 6  
 25.19 8.09 BV 7 175.268 DIESEL 1  
 26.79 6.94 BV 8 163.559 DIESEL 2  
 29.31 6.34 BV 9 178.638 DIESEL 3  
 29.41 42.81 VB 10 ISTD 1 PRISTANE  
 29.75 5.24 BP 11 166.136 DIESEL 4  
 31.13 4.81 VB 12 171.121 DIESEL 5  
 32.44 4.19 BB 13 164.979 DIESEL 6  
 33.69 3.29 BB 14 121.876 DIESEL 7

1105

MULTIPLIER = 1  
ISTD 1 AMT = 20.13

KBR 5880A SAMPLER INJECTION @ 29:32 APR 15, 1998

SAMPLE # : ID CODE :

3 ZUL/L G-0

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT AREA TYPE CAL AMOUNT NAME  
 9.52 11.41 BV 1 143.278 GASOLINE 1  
 9.99 46.21 PV 2 143.278 GASOLINE 2  
 10.93 17.17 BB 3 143.278 GASOLINE 3  
 13.54 21.02 BV 4 143.278 GASOLINE 4  
 14.54 23.51 BB 5 143.278 GASOLINE 5  
 17.99 5.40 BB 6 143.278 GASOLINE 6  
 25.19 8.09 BV 7 167.696 DIESEL 1  
 26.79 6.94 BV 8 167.696 DIESEL 2  
 29.31 6.34 BV 9 167.696 DIESEL 3  
 29.41 42.81 VB 10 ISTD 1 PRISTANE  
 29.75 5.24 BP 11 167.696 DIESEL 4  
 31.13 4.81 VB 12 167.696 DIESEL 5  
 32.44 4.19 BB 13 167.696 DIESEL 6  
 33.69 3.29 BB 14 167.696 DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.13

OVEN TEMP NOT READY

RT: INTG = OFF

RT: INTG = ON  
 [REDACTED]  
 [REDACTED] 3.91  
 [REDACTED] 4.4563  
 [REDACTED] 5.07 5.10  
 [REDACTED] 6.34  
 [REDACTED] 6.88  
 [REDACTED] 7.05 8.18  
 [REDACTED] 8.39  
 [REDACTED] 9.0  
 [REDACTED] 10.67 10.93  
 [REDACTED] 11.32  
 [REDACTED] 12.23  
 [REDACTED] 12.69  
 [REDACTED] 13.26 13.58  
 [REDACTED] 13.61 14.12 14.54  
 [REDACTED] 14.43 14.77 15.40  
 [REDACTED] 15.76  
 [REDACTED] 16.04 161.6389 17.09  
 [REDACTED] 16.40 17.42 17.84 17.95  
 [REDACTED] 16.70 18.40 18.65  
 [REDACTED] 17.10 18.50 19.14  
 [REDACTED] 17.95  
 [REDACTED] 18.51  
 [REDACTED] 19.78 21.13 21.65  
 [REDACTED] 20.93 22.17  
 [REDACTED] 22.05  
 [REDACTED] 22.44 24.02 24.32 24.55  
 [REDACTED] 22.50  
 [REDACTED] 23.85 25.22  
 [REDACTED] 25.83 26.72  
 [REDACTED] 27.51 28.12 28.54  
 [REDACTED] 28.81 29.54

6/10  
 SPANCO 40  
 358/420/22m

110

1105

012

KNPI 5889A SAMPLER INJECTION @ 21:18 APR 15, 1998

SAMPLE #: ID CODE :

4 SUL/L C/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.91	BV	1	367.178	GASOLINE 1
9.89	116.69	PV	2	351.969	GASOLINE 2
10.93	43.71	BP	3	347.284	GASOLINE 3
13.54	53.37	BV	4	342.465	GASOLINE 4
14.54	59.86	BV	5	345.660	GASOLINE 5
17.09	14.94	BV	6	316.497	GASOLINE 6
25.18	20.19	VV	7	391.596	DIESEL 1
26.79	16.64	PP	8	393.049	DIESEL 2
28.31	15.51	BV	9	425.636	DIESEL 3
28.41	50.97	VV	10	ISTD 1	PRISTANE
29.75	13.26	BV	11	413.158	DIESEL 4
31.13	12.15	VP	12	422.209	DIESEL 5
32.44	10.59	BB	13	412.357	DIESEL 6
33.69	8.99	BV	14	443.917	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 29.18

KNPI 5889A SAMPLER INJECTION @ 21:18 APR 15, 1998

SAMPLE #: ID CODE :

4 SUL/L C/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.91	BV	1	358.195	GASOLINE 1
9.89	116.69	PV	2	358.195	GASOLINE 2
10.93	43.71	BP	3	358.195	GASOLINE 3
13.54	53.37	BV	4	358.195	GASOLINE 4
14.54	59.86	BV	5	358.195	GASOLINE 5
17.09	14.94	BV	6	358.195	GASOLINE 6
25.18	20.19	VV	7	419.542	DIESEL 1
26.79	16.64	PP	8	419.542	DIESEL 2
28.31	15.51	BV	9	419.542	DIESEL 3
28.41	50.97	VV	10	ISTD 1	PRISTANE
29.75	13.26	BV	11	419.542	DIESEL 4
31.13	12.15	VP	12	419.542	DIESEL 5
32.44	10.59	BB	13	419.542	DIESEL 6
33.69	8.99	BV	14	419.542	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

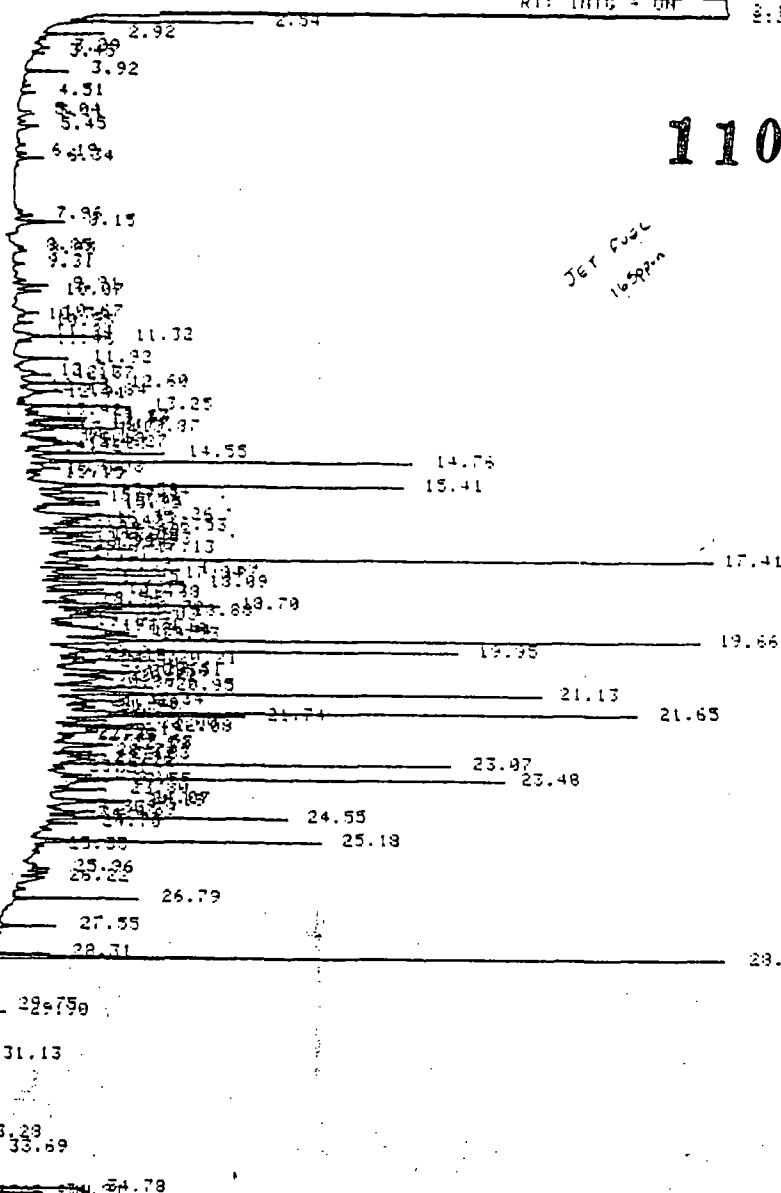
RT: INTG = OFF

RT: INTG = ON 8:18

3.92  
3.99  
3.92  
4.51  
4.84  
5.45  
5.12

13

RT: INTG = OFF



014

INP# 5880A - SAMPLER INJECTION @ 22:05 APR 15, 1988

SAMPLE # : ID CODE :

5 165 PPM JF

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

PT	AREA	TYPE	CAL	AMOUNT	NAME
9.31	0.38	BB	1	5.329	GASOLINE 1
9.91	1.40	BB	2	4.499	GASOLINE 2
10.35	0.56	BB	3	4.868	GASOLINE 3
13.57	2.48	PV	4	16.669	GASOLINE 4
14.55	3.56	BB	5	22.517	GASOLINE 5
17.96	1.22	VW	6	33.385	GASOLINE 6
25.18	6.59	BP	7	146.526	DIESEL 1
26.79	2.48	BB	8	54.449	DIESEL 2
28.31	1.29	VW	9	29.757	DIESEL 3
29.41	29.61	VW	10	1STD 1	PPISTANE
29.75	0.48	BB	11	15.615	DIESEL 4
31.13	0.39	BB	12	10.380	DIESEL 5
33.69	1.27	BB	14	53.094	DIESEL 7

MULTIPLIER = 1

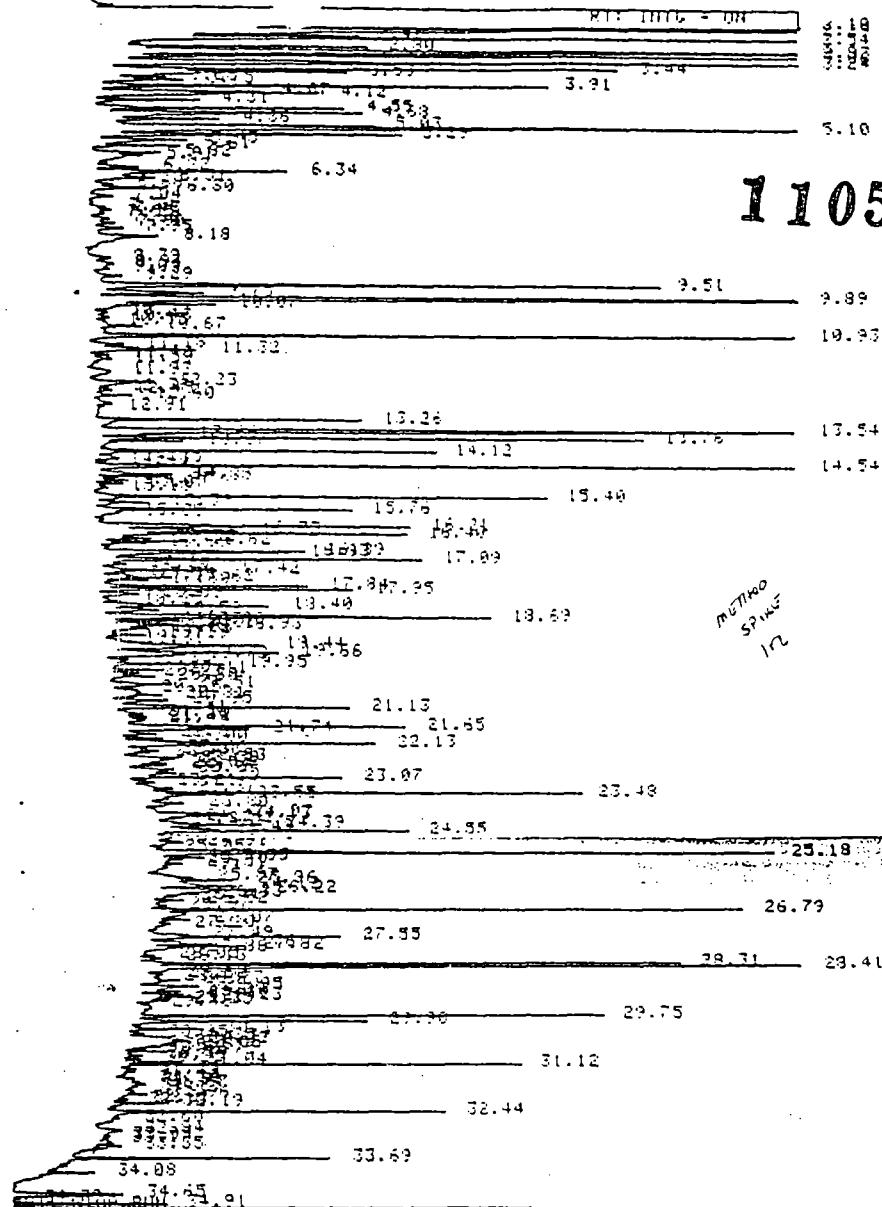
1STD 1 AMT = 20.19

RT: INTG = OFF

RT: INTG = ON

GASOLINE  
DIESEL  
PPISTANE

5.10



EXP 1.5889A SAMPLER INJECTION @ 22:51 APR 15, 1998

SAMPLE #: ID CODE :

6 M SPIKE 1+2

GAS/DIESEL INTERNAL STD METHOD

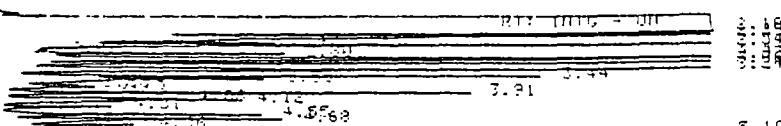
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	19.26	BV	1	255.024	GASOLINE 1
9.89	77.55	PV	2	254.700	GASOLINE 2
10.93	29.86	BB	3	253.597	GASOLINE 3
13.54	35.67	BV	4	256.361	GASOLINE 4
14.54	40.12	BV	5	257.999	GASOLINE 5
17.09	3.48	BV	6	261.983	GASOLINE 6
25.18	16.49	VV	7	379.323	DIESEL 1
26.79	11.72	PV	8	314.345	DIESEL 2
28.31	10.48	BV	9	299.391	DIESEL 3
28.41	34.87	V8	10	ISTD 1	PRISTANE
29.75	8.75	BP	11	296.298	DIESEL 4
31.12	7.89	V8	12	299.379	DIESEL 5
32.44	7.11	BB	13	303.987	DIESEL 6
33.69	5.21	BB	14	287.273	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

RT: INTG = OFF



C16

© SUPELCO, INC., BELLINGHAM, PA. Cat. No. 1-2989 Rev. C, Cat. No. 1-2989 Rev. D (Dated)

KHP 3880A SAMPLER INJECTION @ 23:37 APR 15, 1988  
 SAMPLE #: ID CODE :  
 7 2897C 1+2  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.51	19.58	BV	1	GASOLINE 1
9.89	79.38	PV	2	GASOLINE 2
10.93	29.65	BB	3	GASOLINE 3
13.54	36.58	BV	4	GASOLINE 4
14.54	40.80	BB	5	GASOLINE 5
17.02	9.58	BP	6	GASOLINE 6
25.13	15.69	PV	7	DIESEL 1
26.72	11.73	PV	8	DIESEL 2
28.31	10.54	BV	9	DIESEL 3
29.41	44.87	BV	10	ISTD 1 PRISTANE
29.75	9.86	BP	11	DIESEL 4
31.13	7.94	BV	12	DIESEL 5
32.44	7.10	BB	13	DIESEL 6
33.69	5.29	BB	14	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.18

RT: INTG - OFF

RT: INTG - ON

RT: INTG - ON 3.58

RT: INTG - ON 2.94

RT: INTG - ON 5.11

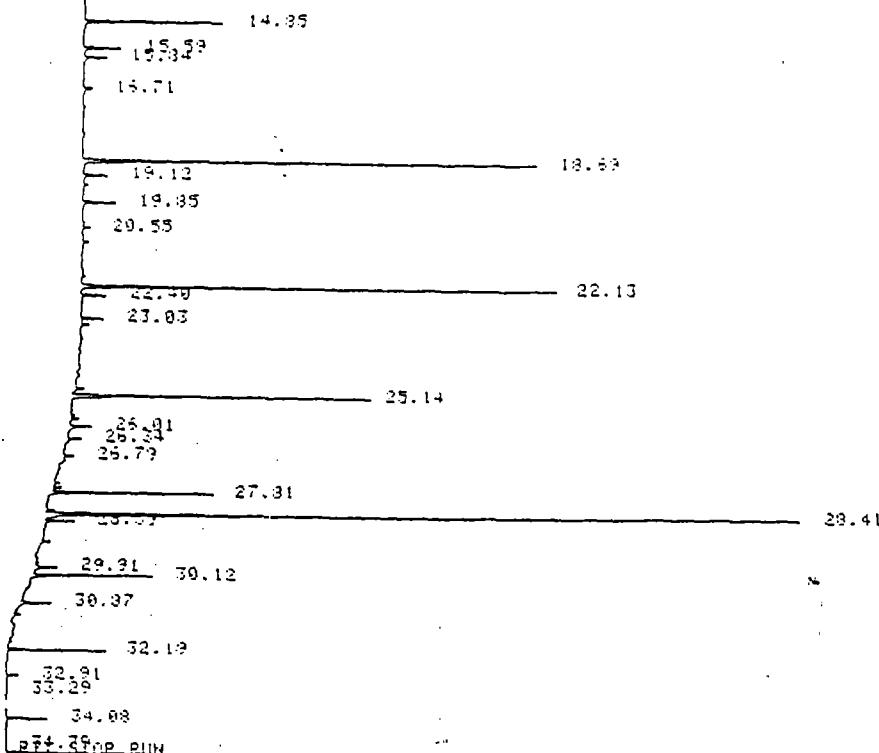
1105

RT: INTG + UN 2:54

5.11

1105

582007A



DRP# 5860A SAMPLER INJECTION @ 00:23 APR 16, 1998

SAMPLE #: ID CODE : 8 2097A

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	3.09	BB	5	20.062	GASOLINE 5
16.71	0.18	BB	6	5.132	GASOLINE 6
25.14	6.69	BB	7	152.642	DIESEL 1
26.79	0.29	BB	8	5.262	DIESEL 2
28.41	38.66	PB	10	ISTD 1	PRISTANE
29.91	0.41	BB	11	13.545	DIESEL 4
30.37	0.57	BB	12	29.595	DIESEL 5
32.19	1.93	BB	13	79.133	DIESEL 6
34.08	1.85	BB	14	80.597	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + UN 3:59

2.92 2.54

5.11

RT: INTG = ON 3:38

2.92 2.94

5.11

1105

83<sup>10</sup>91B

14.35  
15.59

17.77  
18.42  
19.12  
19.85

22.01  
22.13  
23.83

25.14

27.61

28.33

28.41

29.31  
30.12

38.87

32.12

32.91

34.08

BT4-690P PUM

CHP1 5980A SAMPLER INJECTION @ 01:10 APR 16, 1988

SAMPLE #: ID CODE :

9 2097B

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	1.05	BB	5	GASOLINE 5
17.77	0.31	BB	6	GASOLINE 6
25.14	3.42	BB	7	DIESEL 1
28.41	38.25	BB	10	ISTD 1 PRISTANE
29.31	0.39	BB	11	DIESEL 4
30.87	0.31	BB	12	DIESEL 5
32.12	1.02	BB	13	DIESEL 6
34.08	0.36	BB	14	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

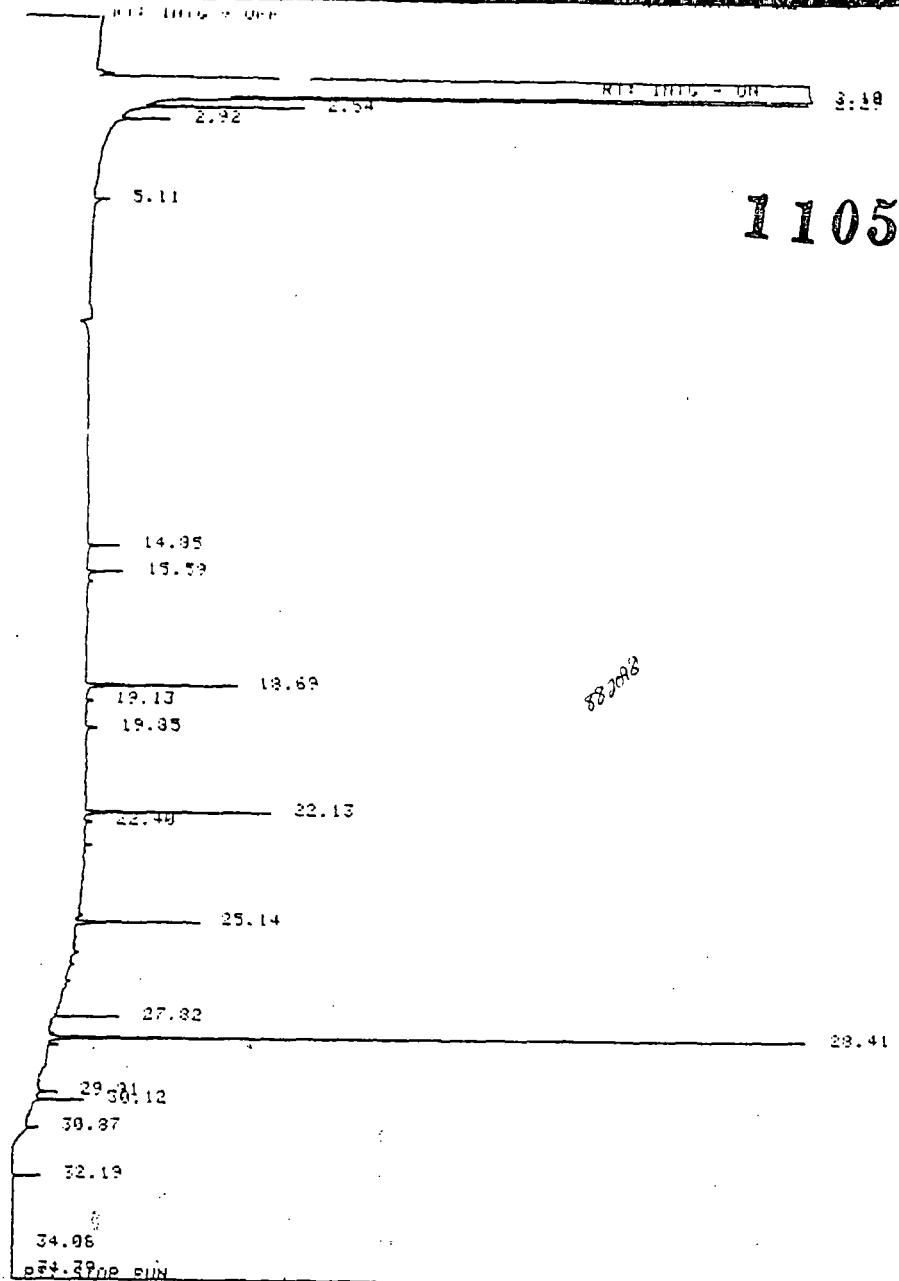
RT: INTG + OFF

RT: INTG = ON 3:38

2.92 2.94

5.11

020



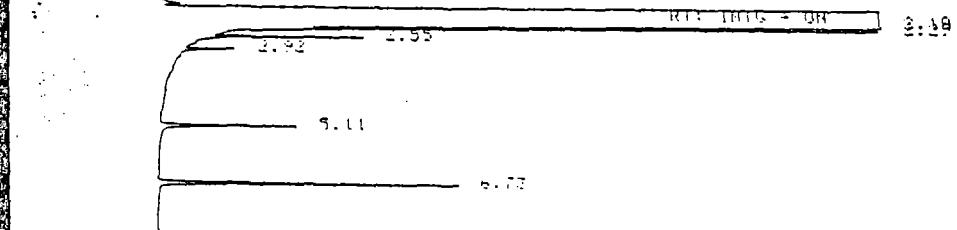
KHPX 5880A SAMPLER INJECTION @ 01:56 APR 16, 1989  
SAMPLE #: ID CODE :

10 2998  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

PT	AREA	TYPE CAL	AMOUNT	NAME
14.85	0.77	BB	5	GASOLINE 5
18.69	3.49	BB	6	GASOLINE 6
25.14	2.89	BB	7	DIESEL 1
29.41	38.44	BB	10	ISTD 1 PRISTANE
29.31	0.41	BB	11	DIESEL 4
30.87	0.27	BB	12	DIESEL 5
32.19	0.31	BB	13	DIESEL 6
34.96	0.83	BB	14	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF



2.92 — 2.55

RT INIT = UN 2:29

5.11

6.73

1105

14.57  
18.69  
23.13

18.69

23.13

25.14

27.92

28.41

33.73

32.19

37.78

34.08

334.39 DOP C11H

J6 2102

CRP 5880A SAMPLER INJECTION @ 02:42 APR 16, 1988

SAMPLE #: ID CODE :

11 2192

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.57	0.15	BB	5	GASOLINE 5
18.69	1.35	BB	6	GASOLINE 6-41
23.14	1.52	BB	7	DIESEL 1
23.41	37.74	BB	10	ISTD 1 PRISTANE
23.71	0.28	BB	11	DIESEL 47-10
32.19	0.16	BB	13	DIESEL 6-10
33.79	0.49	BB	14	DIESEL 7

MULTIPLIER = 1

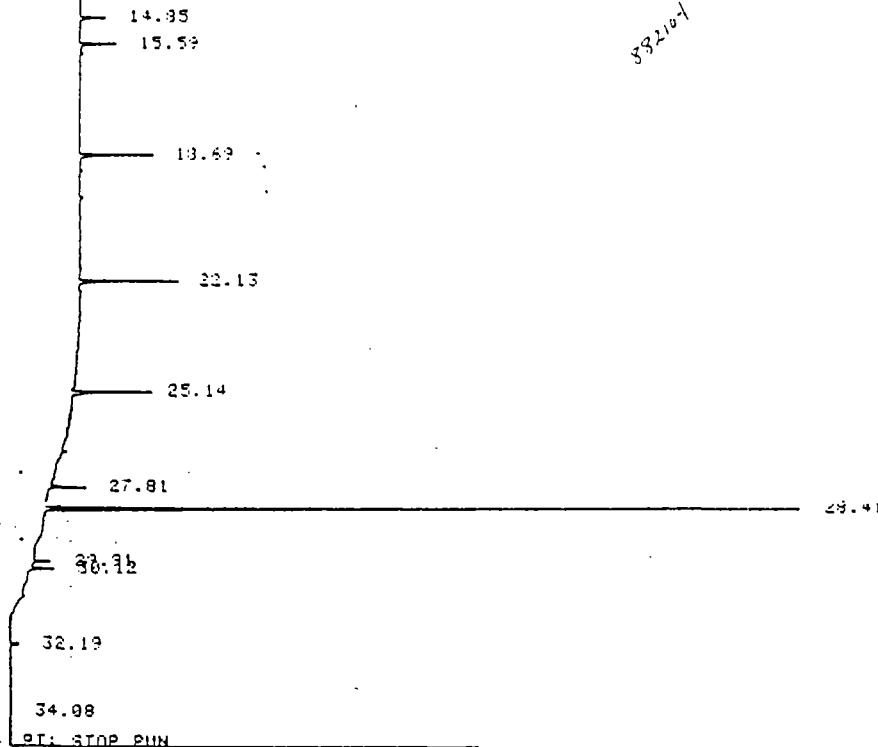
ISTD 1 AMT = 20.18

RT: INTG + OFF

2.92 — 4.54

RT: INTG + OFF 3:38

1105



Chp 3 5000A SAMPLER INJECTION @ 03:29 APR 16, 1988

SAMPLE #: ID CODE :  
12 2104  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	0.63	BB	5	4.138	GASOLINE 5
18.69	1.65	BB	6	46.377	GASOLINE 6
25.14	1.84	BB	7	49.676	DIESEL 1
29.41	38.46	BB	10	ISTD 1	PRISTANE
29.91	0.40	BB	11	13.377	DIESEL 4
32.19	0.92	BB	13	37.792	DIESEL 5
34.98	0.45	BB	14	19.495	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG = OFF

RT: INTG = ON

2:19

2.92 2.54

632108

RT: INTG + OFF

RT: INTG + ON

2:58

2.92

4.54

1105

832106

14.85

15.84

16.71

19.12

19.69

19.85

22.49

22.13

23.03

24.96

25.14

25.91

26.33

26.72

27.81

28.41

29.91 30.12

30.87

32.19

32.91

34.09

B74-390P PLIN

ENPI 5880A SAMPLER INJECTION # 04:14 APR 16, 1988  
SAMPLE #: ID CODE :

13 2106

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	3.06	BB	5	20.164 GASOLINE 57K10
16.71	0.21	BB	6	6.971 GASOLINE 61K10
25.14	6.48	BB	7	159.154 DIESEL 1
26.72	0.41	BB	8	11.167 DIESEL 2
28.41	38.08	BP	19	ISTD 1 PRISTANE
29.91	0.64	BB	11	21.500 DIESEL 4
30.87	0.66	BB	12	24.191 DIESEL 5 } 2K10
32.19	2.11	BB	13	38.509 DIESEL 6 }
34.09	1.83	BB	14	80.839 DIESEL 7 }

MULTIPLIER = 1

ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + ON

2:58

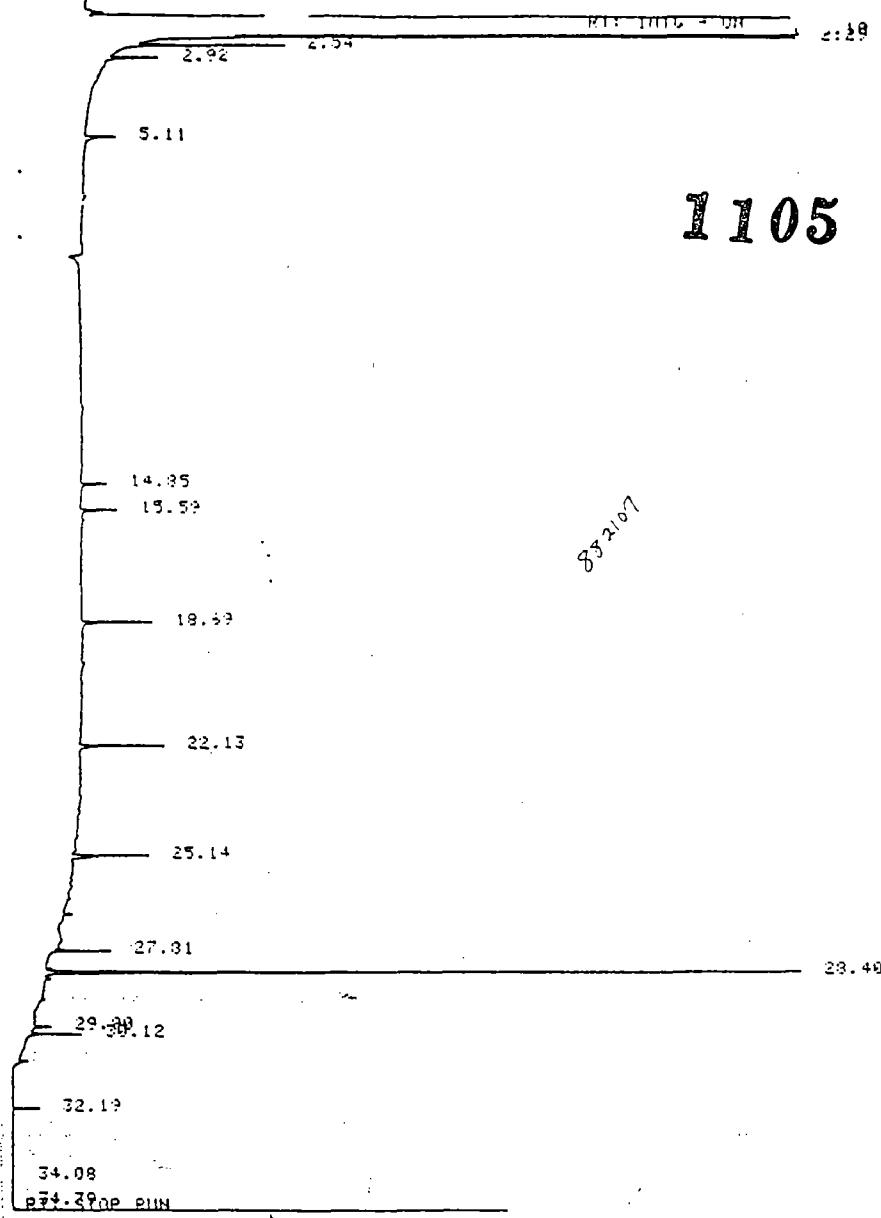
2.92

4.54

5.11

025

G. SUPELCO INC., Bensenville, IL, Cat No 2-28881 Head; Cat No 2-28888 Body or 10' Bend



EHP1 5880A SAMPLER INJECTION @ 05:01 APR 16, 1998

SAMPLE #: ID CODE :

14 .2107

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

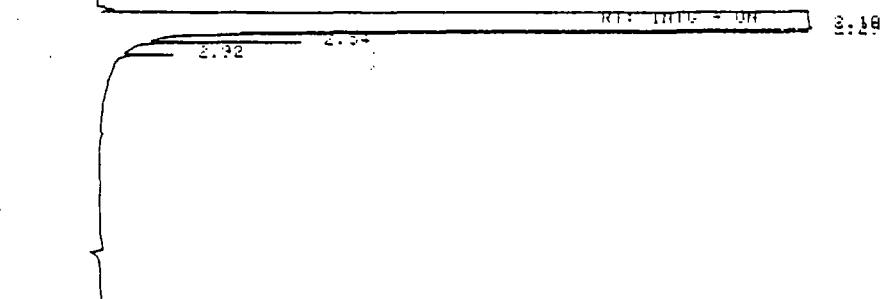
RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	0.62	BB	5	GASOLINE 5
18.69	1.55	BB	6	GASOLINE 6
25.14	2.05	BB	7	DIESEL 1
29.40	37.91	BB	10	ISTD 1 PRISTANE
29.39	0.36	BB	11	DIESEL 4
32.19	0.85	BB	13	DIESEL 6
34.08	0.06	BB	14	DIESEL 7

MULTIPLIER = 1

ISTD 1 RMT = 20.18

RT: INTG = OFF

026



RT: INTG → OFF

RT: INITG → ON 2:18

2.92 2.94

1105

632104

© SUPERCO INC. 8111 Main St. PA. Cat No. 2-7887 Rev. C. Cat No. 2-7888 Date of 10/1981

ENP# 5880A SAMPLER INJECTION # 05:47 APR 16, 1998

SAMPLE #: ID CODE :

15 2108

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	3.83	BB	5	18.498	GASOLINE 5{ <sup>10</sup> / <sub>100</sub> }
16.71	0.25	BB	6	7.070	GASOLINE 6{ <sup>10</sup> / <sub>100</sub> }
25.14	6.12	BB	7	140.009	DIESEL 1{ <sup>10</sup> / <sub>100</sub> }
26.09	0.43	BB	8	12.927	DIESEL 2{ <sup>10</sup> / <sub>100</sub> }
28.49	39.42	BP	10	1STD 1	PRISTANE
29.31	0.39	BB	11	13.154	DIESEL 4{ <sup>10</sup> / <sub>100</sub> }
30.87	0.73	BB	12	26.419	DIESEL 5{ <sup>10</sup> / <sub>100</sub> }
32.19	1.99	BB	13	81.973	DIESEL 6{ <sup>10</sup> / <sub>100</sub> }
34.08	1.85	BB	14	80.739	DIESEL 7{ <sup>10</sup> / <sub>100</sub> }

MULTIPLIER = 1

ISTD 1 AMT = 29.18

RT: INTG → OFF

RT: INITG → ON 2:18

2.92 2.94

5.11

© SUPERCO INC. 8111 Main St. PA. Cat No. 2-7887

RT: INTG + OFF 3:18

2.92 2.94

5.11

1105

382110

14.85

15.84

15.85

18.69

19.12

19.85

22.13

25.14

27.81

29.49

29.39

29.49

32.19

34.98

P74-290P PIIN

ENPE 5880A SAMPLER INJECTION @ 06:33 APR 16, 1988

SAMPLE #: ID CODE :

16 2110

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	RAREA	TYPE CAL	AMOUNT	NAME
14.85	1.17	BB	5	7.625 GASOLINE 5} 4/10
15.84	0.15	BB	6	4.341 GASOLINE 6} 4/10
25.14	2.48	BB	7	54.864 DIESEL 1
29.40	38.39	BB	10	ISTD 1 PRISTANE
29.39	0.33	BB	11	11.169 DIESEL 4} 4/10
32.19	0.63	BB	13	26.198 DIESEL 6} 4/10
34.98	0.61	BB	14	26.848 DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 29.18

RT: INTG + OFF

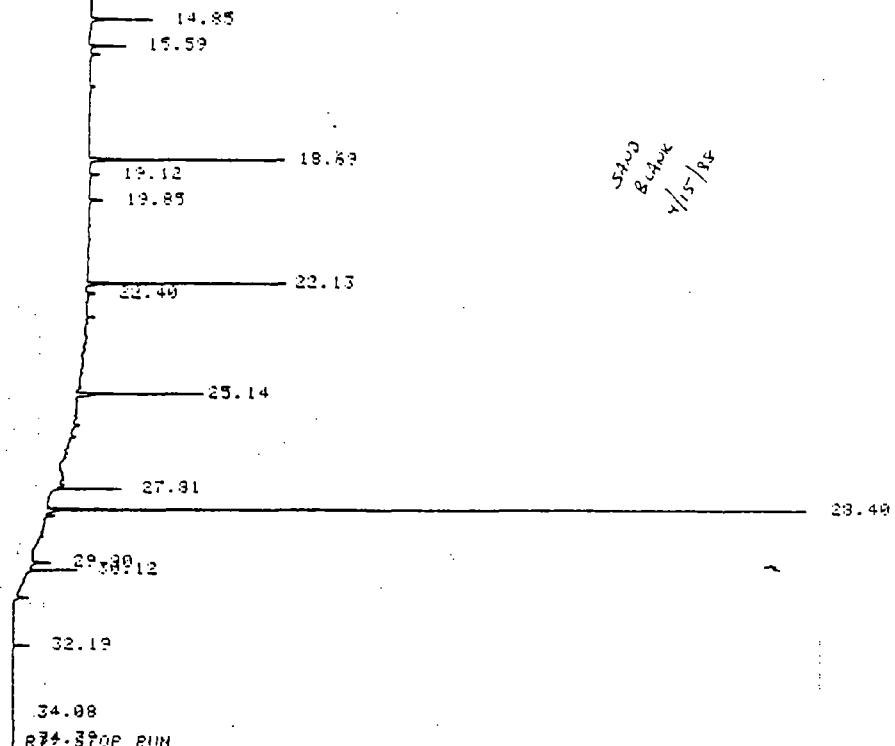
RT: INTG + OFF 3:18

2.92 2.94

382110

1105

STOP PROGRAM AT LINE 100



ENR 5389A SAMPLER INJECTION @ 08:06 APR 16, 1988

SAMPLE #: ID CODE :

19 BLK 4-15

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME					
14.85	1.49	BB	5	9.713	GASOLINE 5 } 16.59	4.37	BB	6	129.593	GASOLINE 6 }
25.14	2.93	BB	7	64.750	DIESEL 1 }					
28.49	38.37	BB	10	10.736	PRISTANE }					
29.38	0.32	BB	11	10.736	DIESEL 4 }					
32.19	0.87	BB	13	36.043	DIESEL 5 } 34.08	0.82	BB	14	36.043	DIESEL 7 }

MULTIPLIER = 1  
ISTD 1 AMT = 20.19

PAGE

039

## ENPI 5880A SAMPLER INJECTION @ 11:17 APR 16, 1998

SAMPLE #: ID CODE :

2 IUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.15	BB	1	69.317	GASOLINE 1
9.90	23.01	PV	2	79.946	GASOLINE 2
10.93	8.58	BB	3	71.576	GASOLINE 3
13.54	10.29	BV	4	66.359	GASOLINE 4
14.54	11.77	BB	5	71.545	GASOLINE 5
17.09	2.73	BB	6	72.357	GASOLINE 6
25.18	3.98	BB	7	91.398	DIESEL 1
26.79	3.36	BB	8	83.866	DIESEL 2
28.31	3.82	BV	9	94.039	DIESEL 3
28.40	41.24	BV	10	102.461	PRISTANE
29.75	2.72	BB	11	95.134	DIESEL 4
31.12	2.73	BV	12	93.279	DIESEL 5
32.43	2.59	BB	13	102.461	DIESEL 6
33.69	4.08	BB	14	237.586	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

## ENPI 5880A SAMPLER INJECTION @ 11:17 APR 16, 1998

SAMPLE #: ID CODE :

2 IUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	5.15	BB	1	71.633	GASOLINE 1
9.90	23.01	PV	2	71.633	GASOLINE 2
10.93	8.58	BB	3	71.633	GASOLINE 3
13.54	10.29	BV	4	71.633	GASOLINE 4

## ISTD COMPENSATED ANALYSIS

RT		TYPE CAL	AMOUNT	NAME
9.52		BB	1	71.639 GASOLINE 1
9.90		PV	2	71.639 GASOLINE 2
10.93		BB	3	71.639 GASOLINE 3
13.54		BV	4	71.639 GASOLINE 4
14.54		BB	5	71.639 GASOLINE 5
17.09		BB	6	71.639 GASOLINE 6
25.18		BB	7	83.998 DIESEL 1
26.79		BB	8	83.998 DIESEL 2
29.31		PV	9	83.998 DIESEL 3
29.49		V8	10	ISTD 1 PRISTANE
29.73		BB	11	83.998 DIESEL 4
31.12		V8	12	83.998 DIESEL 5
32.43		BB	13	83.998 DIESEL 6
33.69		BB	14	83.998 DIESEL 7

1105

MULTIPLIER = 1  
ISTD 1 AMT = 20.19

OVEN TEMP NOT READY

RT: INTG = OFF

RT: INTG = ON				
			2.663.24	
			3.32	
			4.4958	
			5.10	
			5.33	
			5.39	
			5.44	
			5.55	
			5.18	
			3.30	
			9.51	
			9.89	
			10.57	
			10.93	
			11.60	
			12.33	
			12.50	
			13.36	
			13.54	
			14.12	
			14.54	
			15.08	
			15.40	
			15.75	
			16.36	
			16.88	
			17.09	
			17.56	
			17.89	
			18.35	
			18.65	
			19.44	
			19.75	
			20.41	
			21.13	
			21.65	
			22.17	
			23.07	
			23.48	
			24.55	
			25.18	
			25.49	
			26.79	
			27.54	
			28.31	
			28.49	
			29.75	
			30.62	
			31.12	
			31.95	
			32.43	
			33.35	
			33.69	
			34.79	

G/D  
STANARD  
143/163ppm

KHP 1 5880A SAMPLER INJECTION @ 12:04 APR 16, 1988

SAMPLE #: ID CODE :

3 2UL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.51	11.46	BV	1	142.641 GASOLINE 1
9.89	46.42	PV	2	142.629 GASOLINE 2
10.93	17.29	BB	3	143.021 GASOLINE 3
13.54	21.10	BV	4	142.549 GASOLINE 4
14.54	17.77	BB	5	

34.78  
EPA 5380A SAMPLER INJECTION @ 12:04 APR 16, 1988  
SAMPLE #: ID CODE :  
3 ZULV/L G/D  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

1105

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	11.46	BV	1	142.641	GASOLINE 1
9.89	46.42	PV	2	142.629	GASOLINE 2
10.93	17.29	BB	3	143.021	GASOLINE 3
13.54	21.19	BV	4	142.549	GASOLINE 4
14.54	23.77	BB	5	143.681	GASOLINE 5
17.09	5.47	BB	6	144.225	GASOLINE 6
25.18	9.93	BV	7	164.884	DIESEL 1
26.79	6.99	BV	8	167.433	DIESEL 2
28.31	6.55	BV	9	173.517	DIESEL 3
28.49	43.19	BV	10	ISTD 1	PRISTANE
29.75	5.27	BB	11	167.163	DIESEL 4
31.12	4.95	BV	12	172.145	DIESEL 5
32.43	4.46	BB	13	179.848	DIESEL 6
33.69	4.23	BB	14	86.915	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

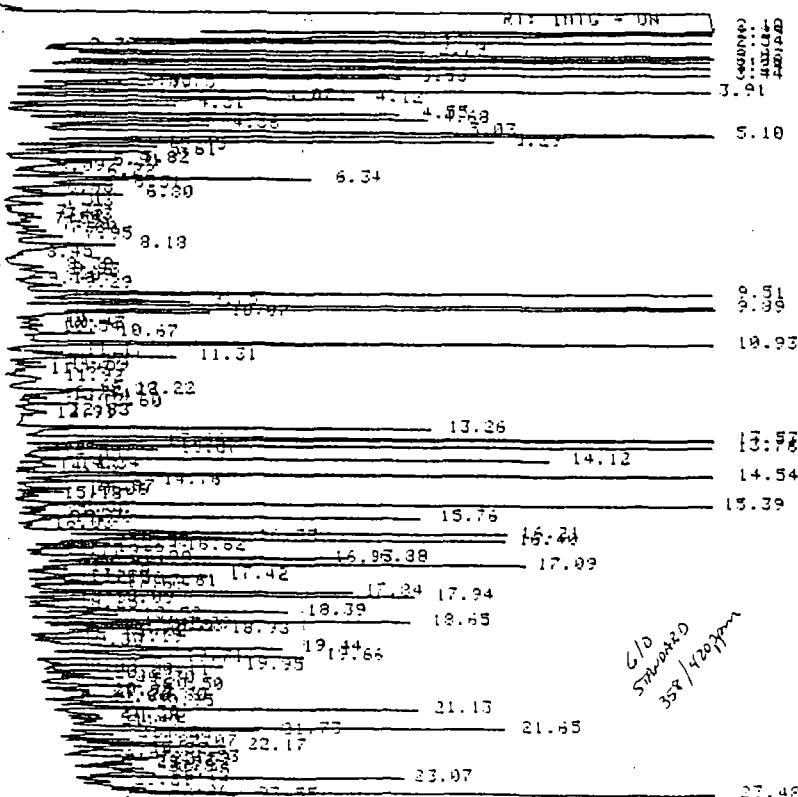
EPA 5380A SAMPLER INJECTION @ 12:04 APR 16, 1988  
SAMPLE #: ID CODE :  
3 ZULV/L G/D  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	11.46	BV	1	143.273	GASOLINE 1
9.89	46.42	PV	2	143.278	GASOLINE 2
10.93	17.29	BB	3	143.273	GASOLINE 3
13.54	21.19	BV	4	143.273	GASOLINE 4
14.54	23.77	BB	5	143.273	GASOLINE 5
17.09	5.47	BB	6	143.273	GASOLINE 6
25.18	9.93	BV	7	167.696	DIESEL 1
26.79	6.99	BV	8	167.696	DIESEL 2
28.31	6.55	BV	9	167.696	DIESEL 3
28.49	43.19	BV	10	ISTD 1	PRISTANE
29.75	5.27	BB	11	167.696	DIESEL 4
31.12	4.95	BV	12	167.696	DIESEL 5
32.43	4.46	BB	13	167.696	DIESEL 6
33.69	4.23	BB	14	167.696	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG = OFF



7105

20.64	21.13
21.23	21.65
22.17	
22.33	
23.55	23.48
24.03	
24.39	24.55
25.08	25.18
25.25	
25.25	26.79
25.25	
25.25	28.34
25.25	
25.25	29.75
25.25	
25.25	31.12
25.25	
25.25	32.43
25.25	
25.25	33.69
34.91	

EPA 5380A SAMPLER INJECTION @ 12:50 APR 16, 1988

SAMPLE #: ID CODE :

4 SUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.49	BV	1	354.064	GASOLINE 1
9.89	119.28	PV	2	356.298	GASOLINE 2
10.93	44.74	BP	3	356.817	GASOLINE 3
13.53	54.51	BV	4	355.879	GASOLINE 4
14.54	61.46	PV	5	357.996	GASOLINE 5
17.89	14.45	BV	6	358.715	GASOLINE 6
25.18	20.44	VV	7	414.777	DIESEL 1
26.79	17.73	PV	8	434.983	DIESEL 2
28.31	16.22	PV	9	427.050	DIESEL 3
28.40	51.44	VV	10	419.531	PRISTANE
29.75	13.62	BP	11	419.531	DIESEL 4
31.12	12.21	VP	12	409.052	DIESEL 5
32.43	11.02	PB	13	429.892	DIESEL 6
33.69	19.47	BV	14	528.789	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 29.18

EPA 5380A SAMPLER INJECTION @ 12:50 APR 16, 1988

SAMPLE #: ID CODE :

4 SUL/L G/D

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	29.49	BV	1	358.195	GASOLINE 1
9.89	119.28	PV	2	358.195	GASOLINE 2
10.93	44.74	BP	3	358.195	GASOLINE 3
13.53	54.51	BV	4	358.195	GASOLINE 4
14.54	61.46	PV	5	358.195	GASOLINE 5
17.89	14.45	BV	6	358.195	GASOLINE 6
25.18	20.44	VV	7	419.542	DIESEL 1
26.79	17.73	PV	8	419.542	DIESEL 2
28.31	16.22	PV	9	419.542	DIESEL 3
28.40	51.44	VV	10	419.542	PRISTANE
29.75	13.62	BP	11	419.542	DIESEL 4
31.12	12.21	VP	12	419.542	DIESEL 5
32.43	11.02	PB	13	419.542	DIESEL 6
33.69	19.47	BV	14	419.542	DIESEL 7

MULTIPLIER = 1

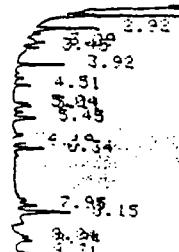
ISTD 1 AMT = 29.18

OVEN TEMP NOT READY

RT: INTG + OFF

RT: INTG + ON

8:38



044

RT: INTG + ON

2:19

1105

SET FWD  
165PPM

2.92	2.94
3.49	
3.92	
4.31	
5.84	
5.95	
6.634	
7.95	15
8.34	
9.31	
10.36	
10.55	
11.32	
12.32	
12.57	2.60
12.94	3.23
13.23	
13.37	
14.55	14.55
14.76	
15.41	
15.87	
16.25	
16.53	
17.12	
17.41	
17.87	
18.09	
18.37	
18.38	18.70
18.55	
19.35	
19.65	
20.35	
20.95	
21.13	
21.65	
21.77	
23.07	
23.48	
23.55	
23.55	
24.55	
24.79	
25.18	
25.22	
26.72	
27.54	
28.31	
28.49	
29.59	
31.12	
32.23	
33.69	
34.52	34.53
34.77	34.77

EXP 5880A SAMPLER INJECTION @ 13:36 APR 16, 1993

SAMPLE #: ID CODE :

5 165 PPM JF

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.31	0.42	BB	1	GASOLINE 1
9.91	1.43	BB	2	GASOLINE 2
10.94	0.54	BB	3	GASOLINE 3
13.57	2.43	PV	4	GASOLINE 4
14.55	3.58	BB	5	GASOLINE 5
17.12	5.84	VV	6	GASOLINE 6
25.18	6.87	BB	7	DIESEL 1
26.79	2.62	BB	8	DIESEL 2
28.31	1.62	BV	9	DIESEL 3
29.48	40.36	BV	10	ISTD 1 PRISTANE
29.75	9.54	BB	11	DIESEL 4
31.12	9.52	BB	12	DIESEL 5
32.43	9.20	BB	13	DIESEL 6
33.69	5.21	BV	14	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 29.18

RT: INTG + OFF

RT: INTG + ON

2:19  
165PPM

3.91

5.09

C46

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	13.79	BV	1	261.756	GASOLINE 1
9.89	79.88	PV	2	262.439	GASOLINE 2
10.93	23.73	BB	3	261.223	GASOLINE 3
13.53	36.59	BV	4	262.865	GASOLINE 4
14.54	41.28	BV	5	263.828	GASOLINE 5
17.09	9.54	BP	6	260.376	GASOLINE 6
23.18	14.43	VV	7	325.065	DIESEL 1
26.79	11.66	PV	8	299.521	DIESEL 2
29.30	19.39	BV	9	287.508	DIESEL 3
29.40	45.27	VB	10	1STD 1	PRISTANE
29.75	8.79	BP	11	294.847	DIESEL 4
31.12	7.97	VB	12	293.649	DIESEL 5
32.43	7.09	BB	13	284.325	DIESEL 6
33.69	5.51	BB	14	156.074	DIESEL 7

KHP 5880A SAMPLER INJECTION @ 14:23 APR 16, 1988

SAMPLE #: ID CODE :

6 M SPIKE 1+2

GRS/DIESEL INTERNAL STD METHOD

1STD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	13.79	BV	1	261.756	GASOLINE 1
9.89	79.88	PV	2	262.439	GASOLINE 2
10.93	23.73	BB	3	261.223	GASOLINE 3
13.53	36.59	BV	4	262.865	GASOLINE 4
14.54	41.28	BV	5	263.828	GASOLINE 5
17.09	9.54	BP	6	260.376	GASOLINE 6
23.18	14.43	VV	7	325.065	DIESEL 1
26.79	11.66	PV	8	299.521	DIESEL 2
29.30	19.39	BV	9	287.508	DIESEL 3
29.40	45.27	VB	10	1STD 1	PRISTANE
29.75	8.79	BP	11	294.847	DIESEL 4
31.12	7.97	VB	12	293.649	DIESEL 5
32.43	7.09	BB	13	284.325	DIESEL 6
33.69	5.51	BB	14	156.074	DIESEL 7

MULTIPLIER = 1

1STD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + OFF	3.91	3.44
4.12	4.4558	3.7
4.35	4.4558	3.7
5.03	5.52	5.10

ENR 1 5380A. SAMPLER INJECTION @ 15:09 APR 16, 1988

SAMPLE #: ID CODE :  
 7 2103C 1+2  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.51	20.18	BV	1	276.734	GASOLINE 1
9.89	81.63	PV	2	276.941	GASOLINE 2
10.93	30.44	BB	3	275.329	GASOLINE 3
13.53	37.42	BV	4	278.080	GASOLINE 4
14.54	42.22	BV	5	278.342	GASOLINE 5
17.02	9.85	BV	6	277.323	GASOLINE 6
25.18	10.89	BV	7	239.797	DIESEL 1
26.79	9.17	BV	8	239.499	DIESEL 2
28.30	8.49	BV	9	236.717	DIESEL 3
29.40	44.19	V8	10	ISTD 1	PRISTANE
29.75	6.38	BP	11	236.983	DIESEL 4
31.12	6.39	V8	12	229.120	DIESEL 5
32.43	5.63	BB	13	223.625	DIESEL 6
33.69	4.41	BB	14	86.824	DIESEL 7 + reference

MULTIPLIER = 1  
 ISTD 1 AMT = 29.18

048

RT: INTG + OFF

1105

2.51 9.39

10.93

13.53

14.54

582103U  
1x225.18  
26.79  
27.54  
28.30  
29.75

23.48

24.55

25.18

26.79

27.54

28.30

29.75

30.33

31.12

32.43

33.69

34.91

PEAK  
AVGAGE  
INTERFERENCE

RT: INTG + OFF 2.18

RT: INTG + OFF

RT: INTG + ON

2:48

2.91 2.54

5.11

1105

882103A

14.85

15.59

19.69

19.85

22.13

25.14

27.81

28.48

28.99

30.86

32.18

32.91

33.36

34.87

34.64

~~ISTD: 2103A~~

## KHP3 5880A SAMPLER INJECTION @ 15:55 APR 16, 1988

SAMPLE #: ID CODE :

8 2103A

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	0.75	BB	5	4.882 GASOLINE 57.27/10
18.69	2.59	BB	6	72.611 GASOLINE 63.27/10
25.14	2.18	BB	7	+9.537 DIESEL 1
28.49	38.32	BB	10	ISTD 1 PRISTANE
29.99	0.37	BB	11	12.227 DIESEL 4
30.86	0.29	BB	12	6.674 DIESEL 5 } 25.793
32.18	0.59	BB	13	DIESEL 6 } 29.793
33.36	2.13	BB	14	DIESEL 7 94.953

MULTIPLIER = 1

ISTD 1 AMT = 29.18

RT: INTG + OFF

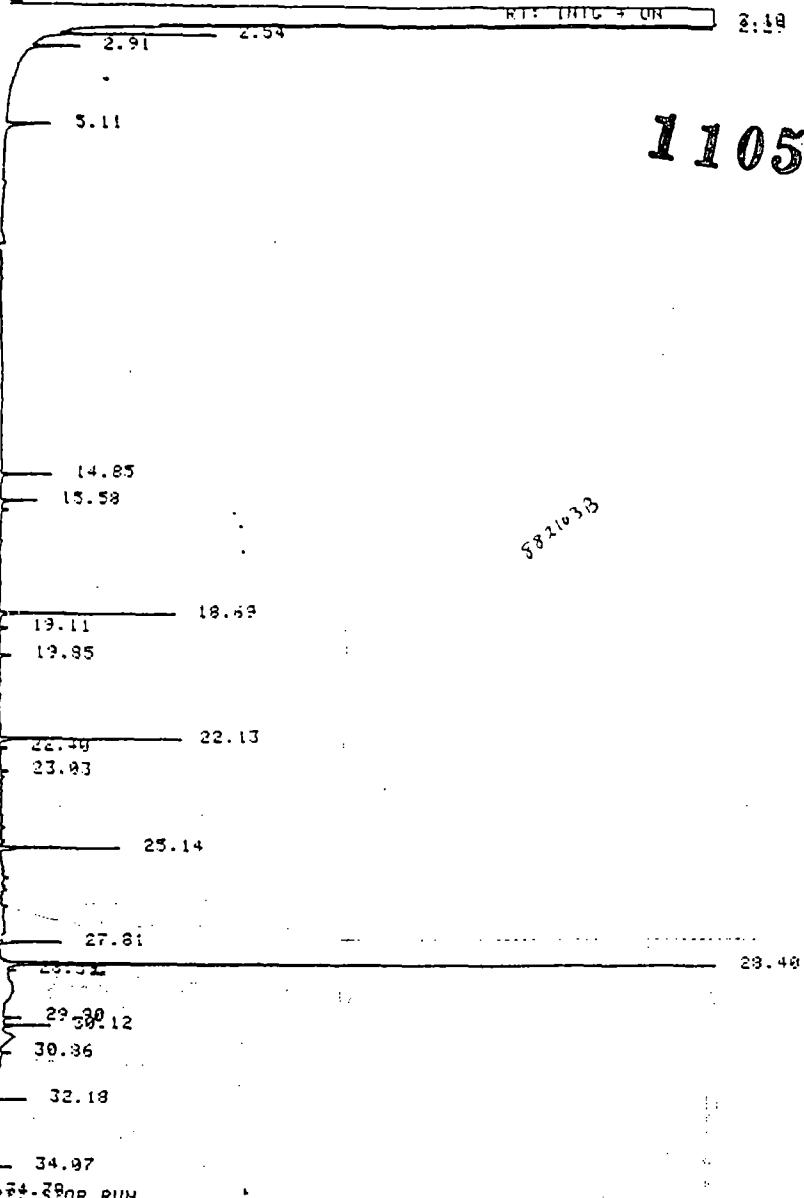
RT: INTG + ON

2:48

2.54

2.91

5.11



KPI 5880A SAMPLER INJECTION @ 16:42 APR 16, 1988

SAMPLE #: ID CODE :

9 2103B

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	1.18	BB	5	7.753 GASOLINE 5
18.69	3.81	BB	6	110.739 GASOLINE 6
25.14	2.73	BB	7	63.147 DIESEL 1
28.48	38.32	BB	10	ISTD 1 PRISTANE
29.90	0.39	BB	11	12.668 DIESEL 4
30.86	0.27	BB	12	9.026 DIESEL 5
32.18	0.33	BB	13	29.025 DIESEL 6
34.97	0.73	BB	14	32.629 DIESEL 7

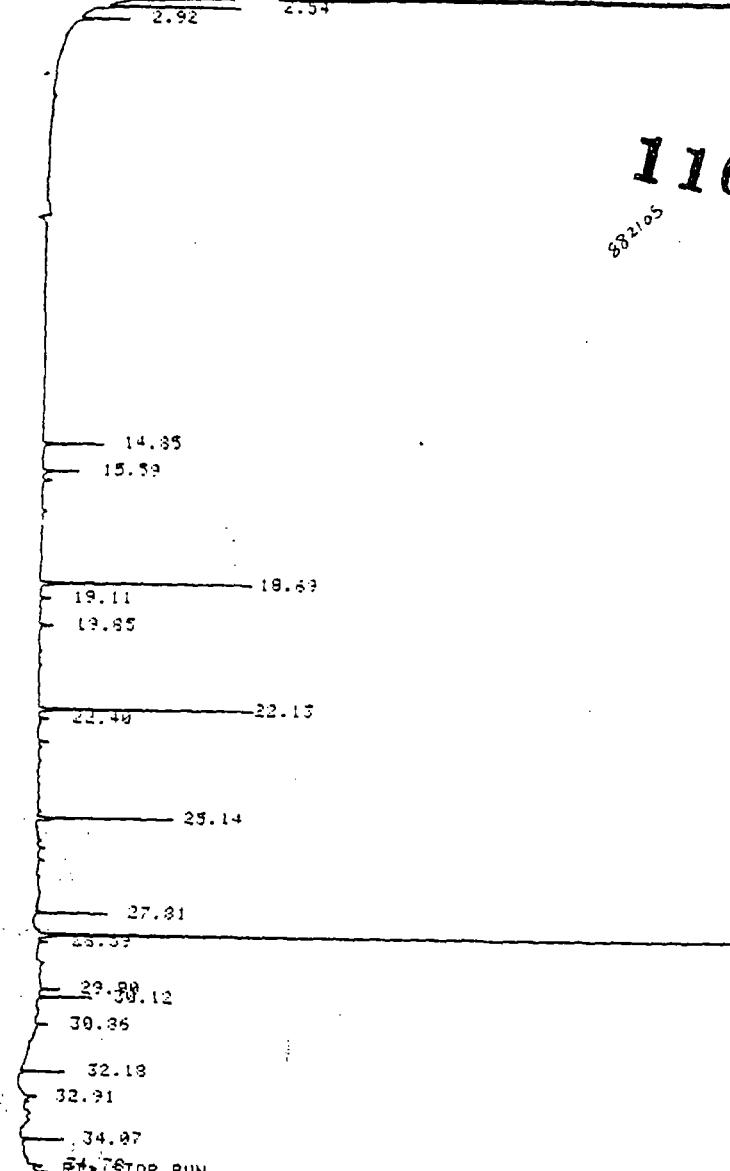
MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + UN 2:18

2.92 2.54

8821635

1105  
682105

ESPI 5980A SAMPLER INJECTION @ 17:28 APR 16, 1998

SAMPLE #: ID CODE :

19 2105

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.85	1.49	BB	5	9.129	GASOLINE 52
18.69	4.72	BB	6	138.568	GASOLINE 63 <sup>1/2</sup> /10
25.14	3.14	BB	7	71.014	DIESEL 1
28.48	38.44	BB	10	1STD 1	PRISTANE
29.89	9.38	BB	11	12.570	DIESEL 4
30.86	9.29	BB	12	9.555	DIESEL 5
32.18	9.97	BB	13	33.748	DIESEL 6 <sup>1/2</sup> /10/10
34.87	8.96	BB	14	42.573	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 29.18

RT: INTG + OFF

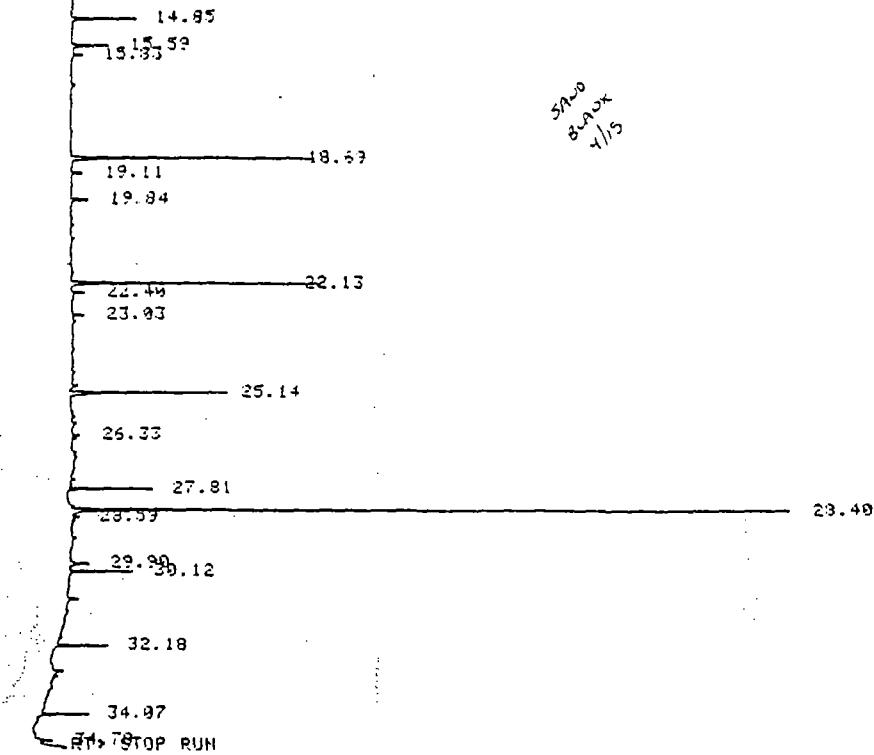
052

2.92

2.54

K1: INTC + UN

1105



S SUPPLCO INC. Bethlehem, PA Cat No. 2-2897 Diesel Cat No. 2-2898 Benz Cat No. 10 Diesel

EHP 5980A SAMPLER INJECTION @ 18:14 APR 16, 1988

SAMPLE #: ID CODE :  
11 BLK 4-15  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.85	1.55	B8	5	18.068 GASOLINE 5
15.83	9.28	B8	6	7.917 GASOLINE 6
25.14	3.58	B8	7	89.696 DIESEL 1
26.33	9.04	B8	8	1.141 DIESEL 2
29.49	38.58	BV	10	ISTD 1 PRISTANE
29.99	0.52	B8	11	17.143 DIESEL 4
32.18	1.09	B8	13	37.561 DIESEL 6
34.07	1.06	B8	14	46.998 DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG + OFF

1105

RT: INIT - UN 3:19

2.92 2.95

5.11

Permit/Pristane

28.43

29.93

RT: STOP RUN

IHP 5880A SAMPLER INJECTION @ 22:27 APR 14, 1988  
SAMPLE #: ID CODE :  
8 P/P

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
28.43	38.95	BB	10	1STD 1	PRISTANE
29.93	0.33	BB	11	10.773	DIESEL 4

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INIT - UN

3:19

620

630

2.97 2.95

3.93

4.33

4.71

5.11

5.38

6.83

8.23

9.53

5.11

9.91

1105

0.43  
 2.39 3.46 3.37 2.95  
 3.75 3.51 3.46 3.93  
 4.34 3.71  
 4.89 3.71  
 5.32 3.32  
 5.85  
 6.38  
 6.83  
 8.23  
 9.53 9.91  
 10.71 10.95  
 11.35  
 12.24  
 12.54  
 13.28 13.55  
 13.70 14.14 14.56  
 14.99 15.41  
 15.73  
 16.43  
 16.96 17.11  
 17.78 18.46  
 18.13 18.57  
 18.81 19.55  
 19.93  
 20.38 21.15  
 21.71 21.68  
 22.19  
 22.62  
 23.10 23.51  
 24.08 24.58  
 24.92 25.21  
 25.55 25.74  
 26.32  
 27.57 28.34 28.43  
 28.43  
 29.58 29.73  
 31.06 31.15  
 32.47  
 33.72  
 RT: 38T08 RIH

6/0  
STAN-HCO  
7.6 /8/77 PM

EHP# 5889A SAMPLER INJECTION @ 23:13 APR 14, 1988  
 SAMPLE #: ID CODE :  
 9 1 UL/L G/D

GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.29	BB	1	67.266	GASOLINE 1
9.91	22.31	PB	2	67.776	GASOLINE 2
10.95	8.34	BB	3	67.381	GASOLINE 3
13.55	10.35	BV	4	67.147	GASOLINE 4
14.56	11.37	BB	5	66.679	GASOLINE 5
17.11	2.53	BB	6	67.534	GASOLINE 6
23.21	3.63	BB	7	76.398	DIESEL 1
26.32	3.29	BB	8	80.537	DIESEL 2
28.34	2.95	PV	9	80.742	DIESEL 3
28.43	40.59	V6	10	ISTD 1	PRISTANE
29.78	2.58	BB	11	80.677	DIESEL 4
31.15	2.28	PB	12	82.326	DIESEL 5
32.47	1.94	BB	13	79.653	DIESEL 6
33.72	2.73	BV	14	156.713	DIESEL 7

MULTIPLIER = 1  
 ISTD '1 AMT = 20.18

EHP# 5889A SAMPLER INJECTION @ 23:13 APR 14, 1988  
 SAMPLE #: ID CODE :  
 9 1 UL/L G/D

GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.29	BB	1	71.639	GASOLINE 1
9.91	22.31	PB	2	71.639	GASOLINE 2

ENPI 5880A SAMPLER INJECTION @ 23:13 APR 14, 1988

SAMPLE # : ID CODE :

9 1 UL/L G/D

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

1105

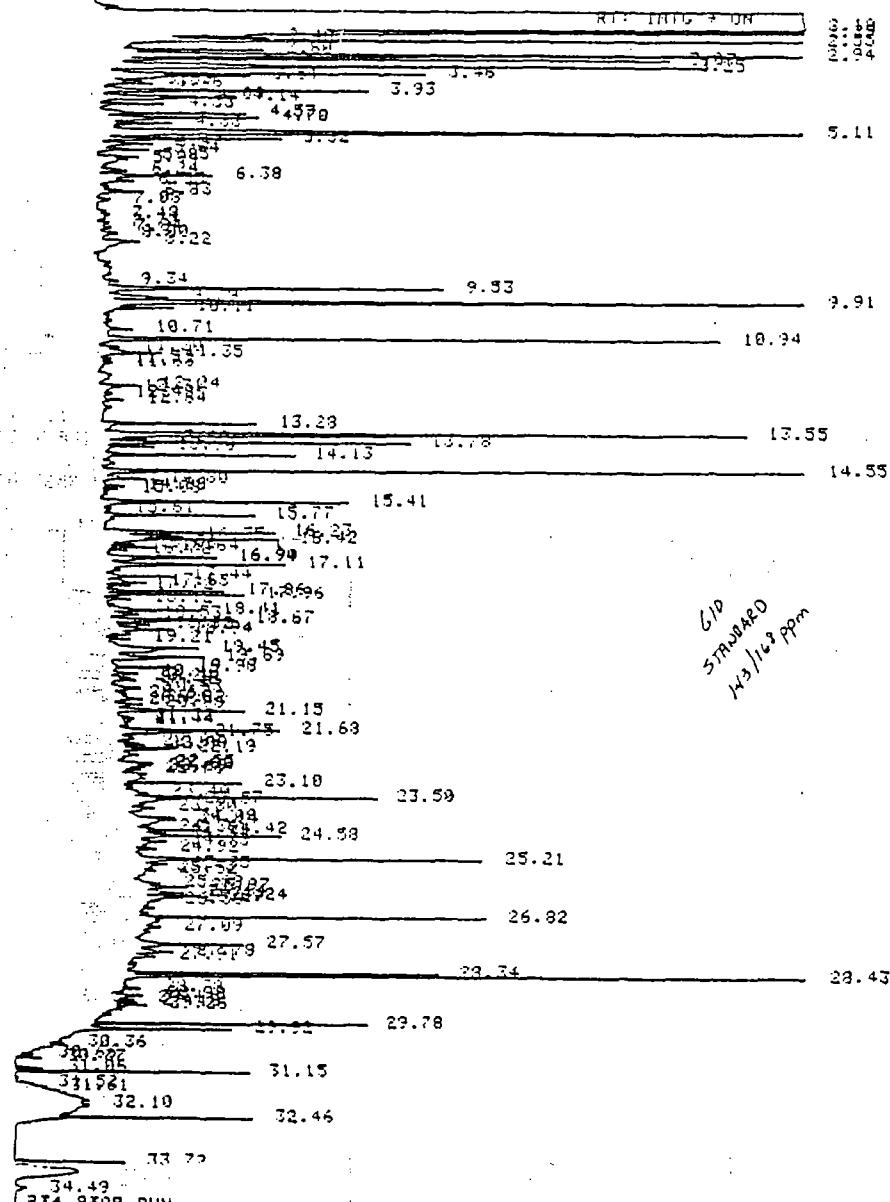
RT	AREA	TYPE	CAL	AMOUNT	NAME
9.53	5.28	BB	1	71.639	GASOLINE 1
9.91	22.31	PB	2	71.639	GASOLINE 2
10.95	8.34	BB	3	71.639	GASOLINE 3
13.55	10.35	BY	4	71.639	GASOLINE 4
14.56	11.37	BB	5	71.639	GASOLINE 5
17.11	2.53	BB	6	71.639	GASOLINE 6
25.21	3.65	BB	7	83.908	DIESEL 1
26.82	3.29	BB	8	83.908	DIESEL 2
28.34	2.95	PV	9	83.908	DIESEL 3
28.43	49.59	VB	10	ISTD 1	PRISTANE
29.79	2.58	BB	11	83.908	DIESEL 4
31.13	2.23	PB	12	83.908	DIESEL 5
32.47	1.94	BB	13	83.908	DIESEL 6
33.72	2.73	BY	14	83.908	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.19

OVEN TEMP NOT READY

RT: INTG = OFF



ENPI 5880A SAMPLER INJECTION @ 23:59 APR 14, 1988

SAMPLE # : ID CODE :

10 2UL/L G/D

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

J R 4.9 STOP RUN

ENPI 5880A SAMPLER INJECTION @ 23:59 APR 14, 1998  
 SAMPLE #: ID CODE :  
 10 2UL/L G/D  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

1105

RT	AREA	TYPE CAL	AMOUNT	NAME
9.53	10.86	BB	1	GASOLINE 1
9.91	46.11	PB	2	GASOLINE 2
10.34	17.42	BB	3	GASOLINE 3
13.55	21.49	BV	4	GASOLINE 4
14.55	23.71	PP	5	GASOLINE 5
17.11	5.79	V8	6	GASOLINE 6
25.21	7.73	BV	7	DIESEL 1
26.82	7.08	BV	8	DIESEL 2
28.34	5.99	BV	9	DIESEL 3
28.43	42.54	V8	10	ISTD 1 PRISTANE
29.78	5.25	BB	11	DIESEL 4
31.15	4.79	PB	12	DIESEL 5
32.46	4.23	BB	13	DIESEL 6
33.72	4.46	BV	14	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.18

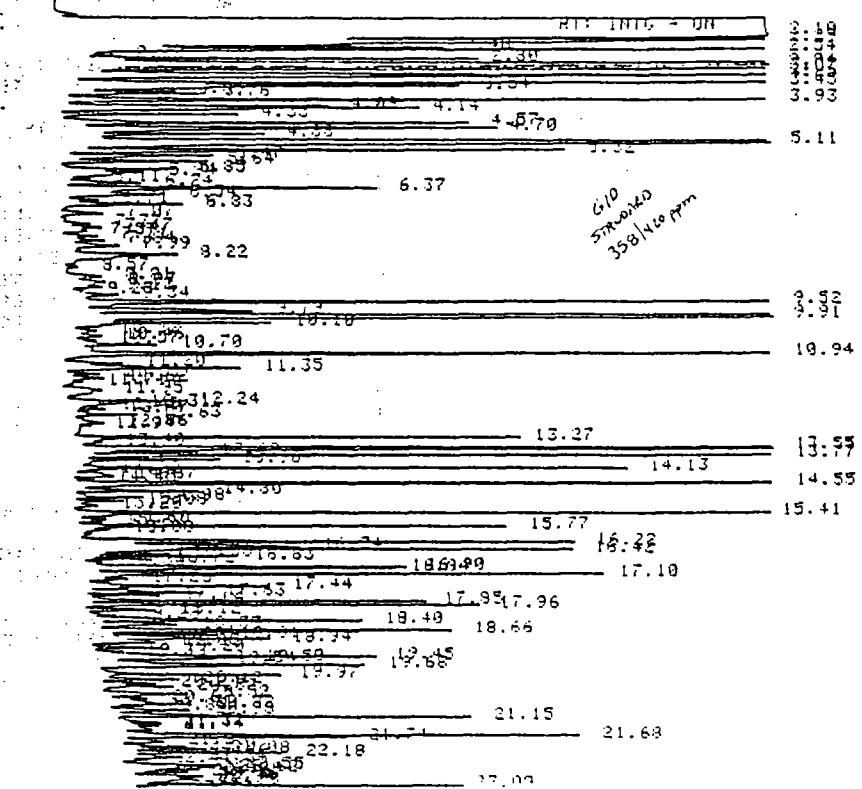
ENPI 5880A SAMPLER INJECTION @ 23:59 APR 14, 1998  
 SAMPLE #: ID CODE :  
 10 2UL/L G/D  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
9.53	10.86	BB	1	GASOLINE 1
9.91	46.11	PB	2	GASOLINE 2
10.34	17.42	BB	3	GASOLINE 3
13.55	21.49	BV	4	GASOLINE 4
14.55	23.71	PP	5	GASOLINE 5
17.11	5.79	V8	6	GASOLINE 6
25.21	7.73	BV	7	DIESEL 1
26.82	7.08	BV	8	DIESEL 2
28.34	5.99	BV	9	DIESEL 3
28.43	42.54	V8	10	ISTD 1 PRISTANE
29.78	5.25	BB	11	DIESEL 4
31.15	4.79	PB	12	DIESEL 5
32.46	4.23	BB	13	DIESEL 6
33.72	4.46	BV	14	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG = OFF



KHP# 5880A SAMPLER INJECTION @ 09:46 APR 15, 1998  
 SAMPLE #: ID CODE :  
 11 : SUL/L G/D  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	28.89	BB	1	367.999	GASOLINE 1
9.91	121.03	PB	2	367.415	GASOLINE 2
10.94	45.91	BB	3	369.935	GASOLINE 3
13.55	56.31	VV	4	370.299	GASOLINE 4
14.55	63.16	VV	5	368.591	GASOLINE 5
17.19	16.24	VV	6	388.314	GASOLINE 6
23.21	21.88	VV	7	433.768	DIESEL 1
26.81	18.46	PV	8	450.575	DIESEL 2
28.33	15.61	PV	9	488.854	DIESEL 3
28.43	51.11	VB	10	ISTD 1	PRISTANE
29.73	13.73	BV	11	426.595	DIESEL 4
31.15	12.33	VB	12	430.432	DIESEL 5
32.46	10.89	BB	13	422.494	DIESEL 6
33.72	7.81	BP	14	426.649	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.18

KHP# 5880A SAMPLER INJECTION @ 09:46 APR 15, 1998  
 SAMPLE #: ID CODE :  
 11 : SUL/L G/D  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
9.52	28.89	BB	1	358.195	GASOLINE 1
9.91	121.03	PB	2	358.195	GASOLINE 2
10.94	45.91	BB	3	358.195	GASOLINE 3

G/D  
33.3/16.171  
1105

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

KHP 3.5889A SAMPLER INJECTION @ 00:46 APR 15, 1988  
SAMPLE #: ID CODE :  
11 SUL/L C/D  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

1105

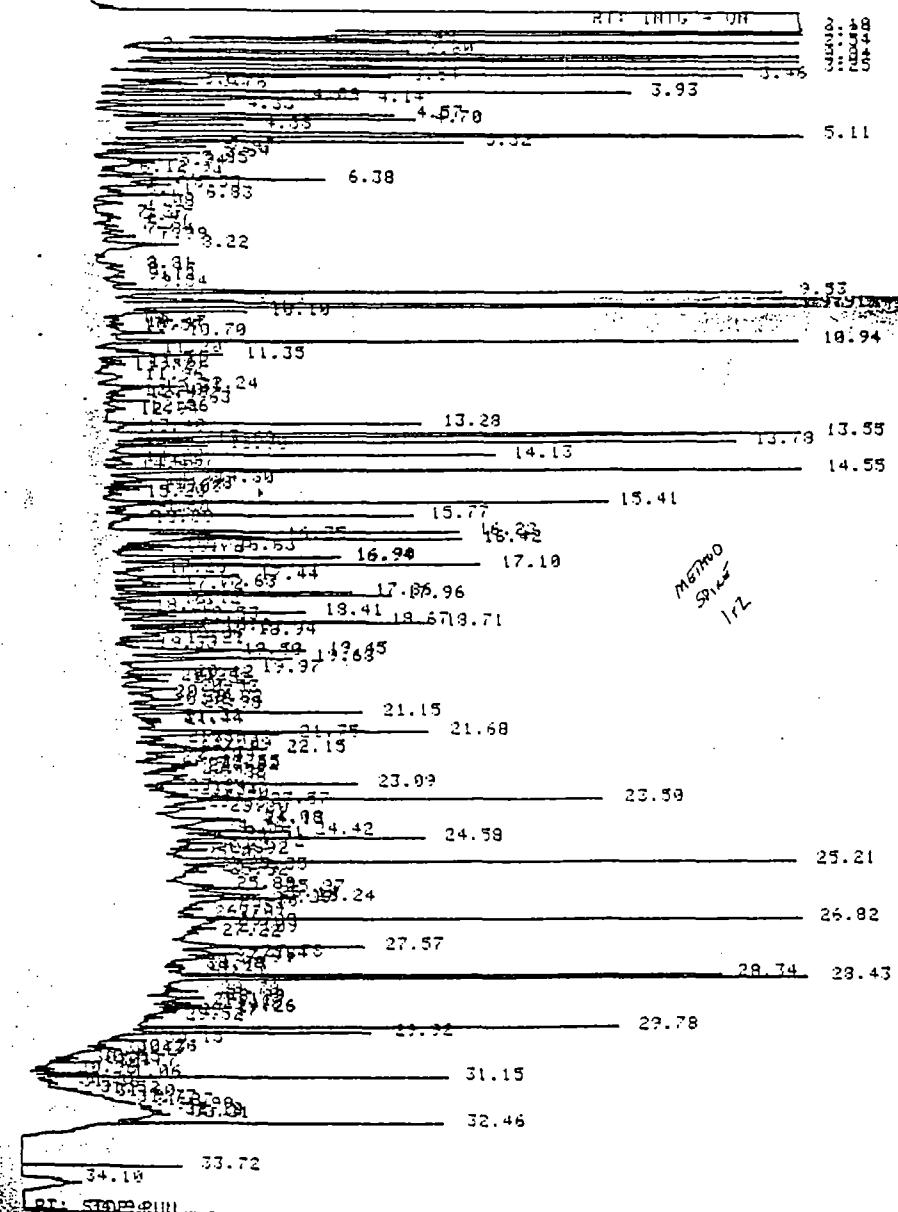
© SUPRECO INC. Bethlehem, PA. Cat No. 2-2881 Rev. C. Oct 1972. Rev. D.

RT	AREA	TYPE CAL	AMOUNT	NAME
9.52	28.99	BB	1	358.195 GASOLINE 1
9.91	121.93	PB	2	358.195 GASOLINE 2
10.94	45.91	BB	3	358.195 GASOLINE 3
13.55	56.81	VV	4	358.195 GASOLINE 4
14.55	63.16	VV	5	358.195 GASOLINE 5
17.10	16.24	VV	6	358.195 GASOLINE 6
25.21	21.88	VV	7	419.542 DIESEL 1
26.81	19.46	PV	8	419.542 DIESEL 2
28.33	15.61	PV	9	419.542 DIESEL 3
29.47	51.11	V8	10	ISTD 1 PRISTANE
29.73	13.73	V8	11	419.542 DIESEL 4
31.15	12.33	V8	12	419.542 DIESEL 5
32.46	19.89	BB	13	419.542 DIESEL 6
33.72	7.81	BP	14	419.542 DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

OVEN TEMP NOT READY

RT: INTG = OFF



KHP 3.5889A SAMPLER INJECTION @ 01:32 APR 15, 1988  
SAMPLE #: ID CODE :  
12 M SPIKE 1+2

1105

33.72

RT: STDBY/FIN

KHP1 3880A SAMPLER INJECTION @ 01:32 APR 15, 1988  
 SAMPLE #: ID CODE :  
 12 M SPIKE 1+2  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

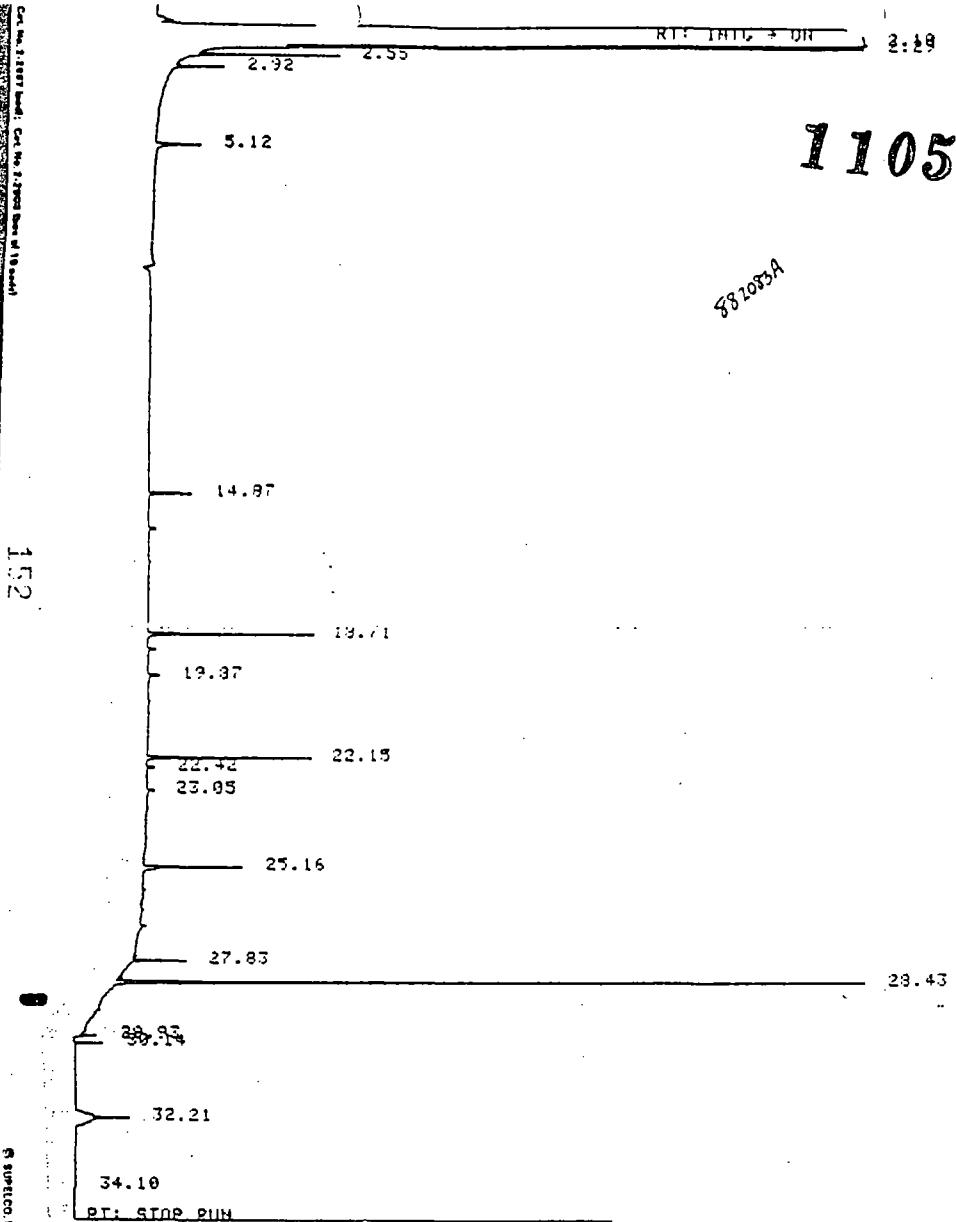
RT	AREA	TYPE	CRL	AMOUNT	NAME
9.53	21.19	V8	1	299.594	GASOLINE 1
9.91	89.22	V8	2	291.355	GASOLINE 2
10.94	33.62	V8	3	299.410	GASOLINE 3
13.55	41.62	V8	4	290.994	GASOLINE 4
14.55	46.64	V8	5	292.729	GASOLINE 5
17.10	11.85	V8	6	292.353	GASOLINE 6
25.21	15.39	V8	7	228.992	DIESEL 1
26.82	12.19	PV	8	297.879	DIESEL 2
28.34	10.32	V8	9	300.700	DIESEL 3
28.43	45.32	V8	10	1STD 1	PRISTANE
29.78	9.22	V8	11	306.590	DIESEL 4
31.15	7.39	V8	12	294.630	DIESEL 5
32.46	7.19	V8	13	299.998	DIESEL 6
33.72	5.32	BP	14	234.290	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.19

RT: INTG = OFF

RT: INTG = ON		
		8.74 440
		4.77 440
		10.94
7.34	2.32	3.45
7.34	3.93	
4.53	4.14	
4.53	4.570	
4.53	5.11	
12.19	6.38	
10.32		
10.32	8.22	
8.22		
8.22	9.53	
8.22	9.91	
8.22	10.19	
8.22	10.70	
8.22	11.35	
11.35		
11.35	12.24	
12.24		
12.24	13.28	
13.28		
13.28	14.13	
14.13		
14.13	14.55	
14.55		
14.55	15.41	
15.41		
15.41	16.22	
16.22		
16.22	16.90	
16.90		
16.90	17.10	
17.10		
17.10	17.49	
17.49		
17.49	18.41	
18.41		
18.41	18.71	
18.71		
18.71	19.59	
19.59		
19.59	20.48	
20.48		
20.48	21.15	
21.15		
21.15	21.68	
21.68		
21.68	22.15	
22.15		
22.15	23.09	
23.09		
23.09	23.50	
23.50		
23.50	24.58	
24.58		
24.58	25.21	
25.21		
25.21	25.87	
25.87		
25.87	26.81	
26.81		
26.81	27.57	
27.57		
27.57	28.37	
28.37		
28.37	29.43	
29.43		
29.43	29.73	
29.73		
29.73	31.15	
31.15		
31.15	32.46	
32.46		
32.46	33.72	
33.72		
33.72	RT: STDBY/FIN	

KHP1 3880A SAMPLER INJECTION @ 02:18 APR 15, 1988



HP 3880A SAMPLER INJECTION @ 03:05 APR 15, 1988  
 SAMPLE #: ISTD CODE :  
 14 2083A  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.02	BB	5	6.826	GASOLINE 5
18.71	3.51	BB	6	100.704	GASOLINE 6
25.16	2.36	BB	7	57.357	DIESEL 1
29.43	38.36	BB	10	ISTD 1	PRISTANE
29.33	0.39	BB	11	13.425	DIESEL 4
32.21	0.75	BB	13	34.525	DIESEL 5
34.10	2.29	BB	14	74.296	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + OFF

2:59

1105

15.3

2.92 2.55

5.11

14.87

15.36

19.13

19.87

18.71

22.92

23.05

22.15

25.16

27.83

28.43

29.27

30.14

32.21

34.10

PT: STOP ONH

KHP1 5880A SAMPLER INJECTION @ 03:51 APR 15, 1988

SAMPLE #: ID CODE :

14.87 15.36 20838

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.63	BB	5	10.591	GASOLINE 5
15.36	0.21	BB	6	6.023	GASOLINE 6
25.16	3.56	BB	7	83.295	DIESEL 1
28.43	39.81	BB	10	ISTD 1	PRISTANE
29.23	0.35	BB	11	11.532	DIESEL 4
32.21	1.23	BB	13	55.150	DIESEL 6
34.10	1.11	BB	14	34.879	DIESEL 7

MULTIPLIER = 1

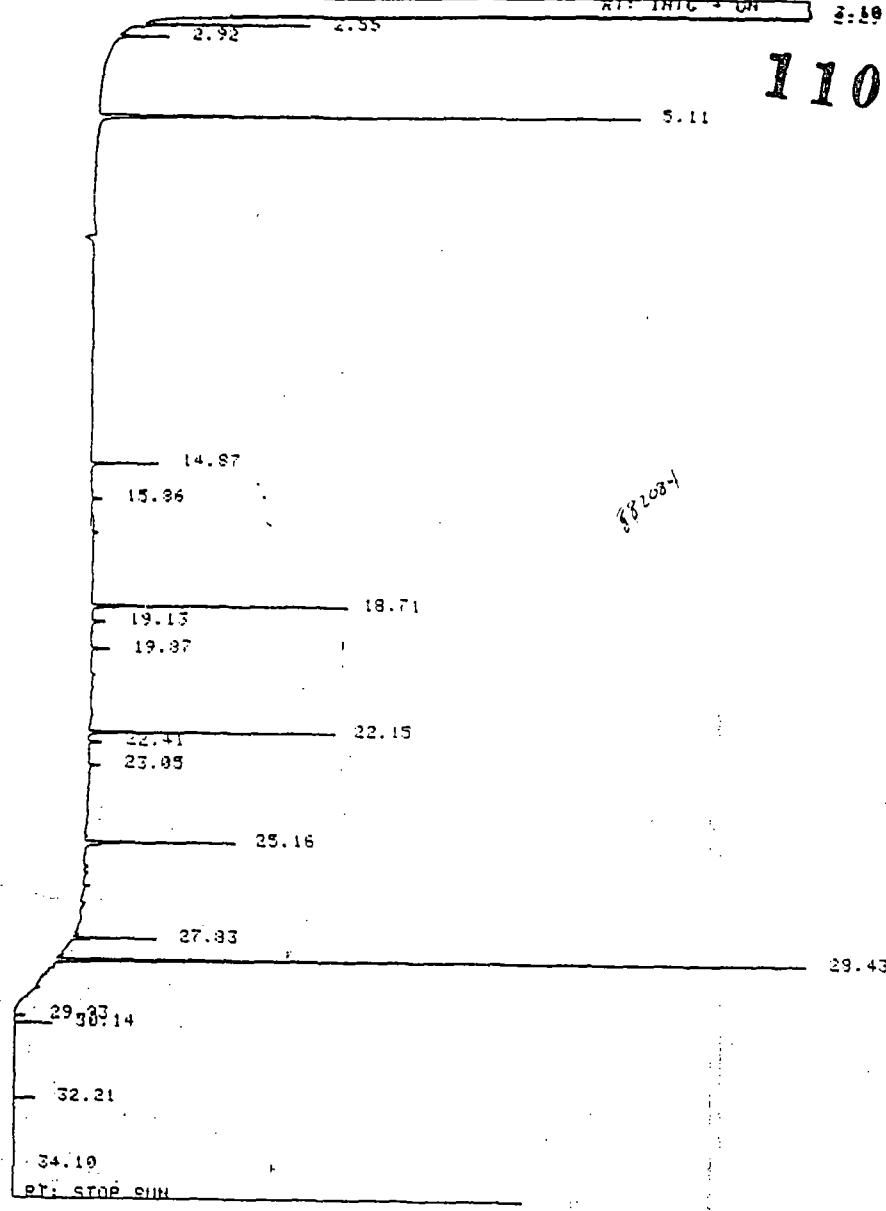
ISTD 1 AMT. = 20.19

5.11

RT: INTG + OFF

2.92 2.55

5.11



Chp 1 5889A SAMPLER INJECTION @ 04:37 APR 15, 1988

SAMPLE #: ID-CODE :

16 2084

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.56	BB	5	10.425	GASOLINE 5
15.86	0.23	BB	5	6.863	GASOLINE 5
25.16	3.42	BB	7	83.208	DIESEL 1
28.43	38.35	BB	10	13.215	DIESEL 1 PRISTANE
29.33	0.38	BB	11	13.215	DIESEL 4
32.21	1.94	BB	13	47.867	DIESEL 6
34.19	0.93	BB	14	30.271	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + ON

3:29

2.92 2.95

5.11

RT: INTG + ON 3:19

2.92 2.55

5.11

1105

532086

14.97

18.71

22.15

25.16

27.93

28.43

30.94

32.21

34.10

ETI STOP RUN

Chpco 5880A SAMPLER INJECTION @ 05:23 APR 15, 1988  
SAMPLE #: ID CODE : 1

17 2086

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.97	0.21	BB	5	1.399 GASOLINE 5
18.71	0.34	BB	6	24.957 GASOLINE 6
22.15	0.33	BB	7	19.992 DIESEL 1
25.16	0.34	BB	10	ISTD 1 PRISTANE
29.93	0.34	BB	11	11.398 DIESEL 4
32.21	0.55	BB	13	25.125 DIESEL 5
34.10	0.53	BB	14	17.004 DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + ON 3:38

2.92 2.55

3.12

OFFSET = 19

5.12

1105

XOFFSET = 18

85287

14.87

15.86

19.13

19.97

18.71

22.42

23.95

22.15

25.16

27.93

28.43

2938315

32.21

34.19

RT: STOP PUN

Chp X 5889R SAMPLER INJECTION @ 06:10 APR 15, 1988  
 SAMPLE #: ID CODE :

18 2987  
 GAS/DIESEL INTERNAL STD METHOD  
 ISTD COMPENSATED ANALYSIS

RT.	AREA	TYPE CAL	AMOUNT	NAME
14.87	1.51	BB 5	10.177	GASOLINE 5
15.86	0.25	BB 6	7.457	GASOLINE 6
25.16	3.23	BB 7	79.019	DIESEL 1
29.43	38.04	BB 10	ISTD 1	PRISTANE
29.93	0.37	BB 11	12.893	DIESEL 4
32.21	1.87	BB 13	49.292	DIESEL 6
34.19	1.53	BB 14	50.306	DIESEL 7

MULTIPLIER = 1  
 ISTD 1 AMT = 29.18

15001

RT: INTG + OFF

1105

RT: INTG + ON 2:49

2.92 2.55

5.11

14.87

18.71

19.87

22.15

25.16

27.83

28.43

38.23

32.21

34.10

PTI STOP RUN

KMPI 5889A SAMPLER INJECTION @ 06:56 APR 15, 1988

SAMPLE #: ID CODE :

19 2089

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.87	0.74	BB	5	4.635 GASOLINE 5
18.71	2.50	BB	6	71.266 GASOLINE 6
25.16	1.67	BB	7	38.777 DIESEL 1
28.43	40.23	BB	10	ISTD 1 PRISTANE
29.93	0.38	BB	11	12.307 DIESEL 4
32.21	0.51	BB	13	22.596 DIESEL 6
34.10	0.49	BB	14	14.316 DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 20.19

RT: INTG + OFF

RT: INTG + ON

2:48

2.92 2.55

5.12

RT: INTG + OFF

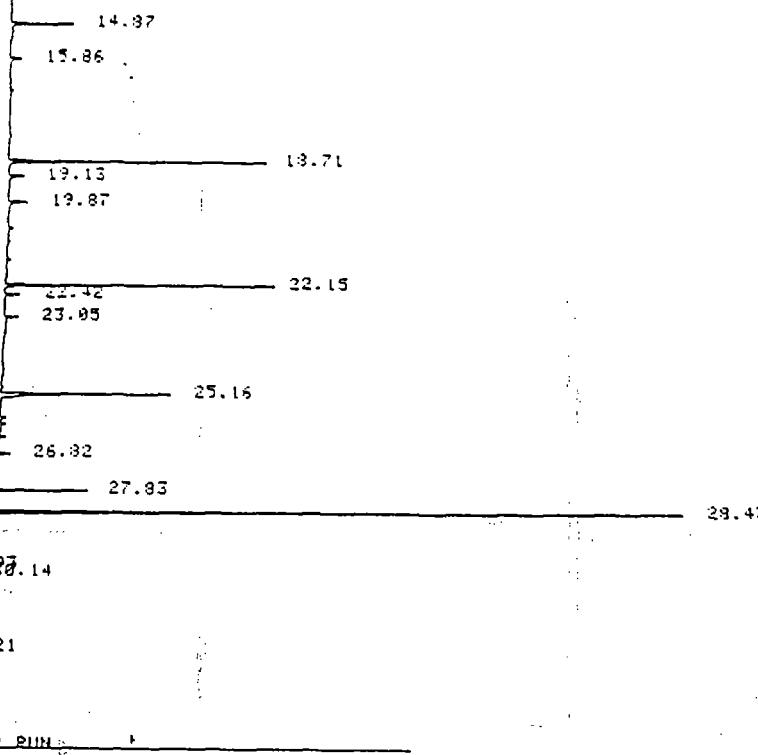
2.19

2.92 2.55

5.11

1105.

431092



KHP 5880A SAMPLER INJECTION @ 09:29 APR 15, 1998

SAMPLE #: ID CODE :  
DATE: 21 APR 1998  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.43	BB	5	9.391	GASOLINE 5
15.86	0.21	BB	6	6.141	GASOLINE 6
23.16	3.95	BB	7	34.490	DIESEL 1
26.82	0.25	BB	8	6.747	DIESEL 2
29.43	38.87	PB	10	ISTD 1	PRISTANE
29.93	0.37	BB	11	12.464	DIESEL 4
32.21	1.26	BB	13	56.959	DIESEL 6
34.10	1.01	BB	14	32.377	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT. = 29.18

RT: INTG + OFF

RT: INTG + OFF

2.19

2.92 2.55

5.12

RT: INTG + OFF

RT: INTG + ON

3:18

162

1105

2.92 2.93

5.12

14.37

15.36

18.71

19.13

19.87

22.15

22.42

23.95

25.16

27.83

28.43

29.53314

32.21

34.09

RT: STOP PUMP

682893

EHPX 5880A SAMPLER INJECTION @ 99:15 APR 15, 1988  
SAMPLE #: ID CODE :22 2093  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

163

RT	AREA	TYPE CAL	AMOUNT	NAME
14.37	1.56	BB	5	GASOLINE 5
15.36	0.22	BB	6	GASOLINE 6
25.16	3.34	BB	7	DIESEL 1
28.43	38.43	BB	10	ISTD 1 PRISTANE
29.93	0.41	BB	11	DIESEL 4
32.21	1.98	BB	13	DIESEL 5
34.09	0.91	BB	14	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18LIST OVEN TEMP  
OVEN TEMP=78°C SETPT=40°C LIMIT=290°CLIST OVEN TEMP  
OVEN TEMP=43°C SETPT=40°C LIMIT=290°C

RT: INTG + OFF

RT: INTG + ON

3:19

2.92 2.93

5.11

1105

382094

14.37

18.71

22.15

25.16

27.83

28.43

30.93

32.21

34.09

PT: STOP PUN

IHPA 5380A SAMPLER INJECTION @ 10:02 APR 15, 1988  
SAMPLE #: ID CODE :

23 2894  
GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.37	0.34	BB	5	2.306	GASOLINE 5
18.71	0.58	BB	6	17.596	GASOLINE 6
25.16	0.57	BB	7	13.875	DIESEL 1
28.43	38.15	BB	10	ISTD 1	PRISTANE
29.93	0.34	BB	11	11.931	DIESEL 4
32.21	0.26	BB	13	11.304	DIESEL 6
34.09	0.30	BB	14	9.658	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

RT: INTG + OFF

RT: INTG + OFF 3:59

382095

RT: INTG + OFF

2:28

2.92

2.55

5.11

1105

34203

165

14.87

18.71

22.15

25.16

27.83

29.43

30.87

32.21

34.10

OT: STOP RUN

KHP# 5800A, SAMPLER INJECTION @ 10:43 APR 15, 1988

SAMPLE #: ID CODE :

24 2095

GAS/DIESEL INTERNAL STD METHOD  
ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE CAL	AMOUNT	NAME
14.87	0.70	BB	5	GASOLINE 5
18.71	2.30	BB	6	GASOLINE 6
25.16	1.71	BB	7	DIESEL 1
28.43	38.32	BB	10	ISTD 1 PRISTANE
29.23	9.30	BB	11	DIESEL 4
32.21	0.53	BB	13	DIESEL 6
34.10	0.53	BB	14	DIESEL 7

MULTIPLIER = 1

ISTD 1 AMT = 29.18

RT: INTG + OFF

RT: INTG + OFF

2:49

2.92

2.55

5.11

G.C.

165

RT: INIT + OFF

2:29

2.32 2.55

5.11

1105

14.87

15.86

18.71

22.15

25.16

27.83

28.43

28.314

32.20

34.09  
RT: STOP RUN

Expo 5880A - SAMPLER INJECTION @ 11:34 APR 15, 1988

SAMPLE #: ID CODE :

25 S BLK 4-14

GAS/DIESEL INTERNAL STD METHOD

ISTD COMPENSATED ANALYSIS

RT	AREA	TYPE	CAL	AMOUNT	NAME
14.87	1.31	BB	5	8.778	GASOLINE 5
15.86	0.15	BB	6	4.452	GASOLINE 6
23.16	2.38	BB	7	70.129	DIESEL 1
28.43	38.27	BB	10	ISTD 1	PRISTANE
29.33	0.33	BB	11	11.341	DIESEL 4
32.20	1.20	V8	12	55.021	DIESEL 5
34.09	1.11	BB	13	36.161	DIESEL 7

MULTIPLIER = 1  
ISTD 1 AMT = 20.18

END OF PROGRAM

START AUTO SEQ 26- 26

OVEN TEMP NOT READY

STOP AUTO SEQ

SAMPLE TBL

SAMPLE #: ID CODE :

26 165 PPM JF  
EXIT

START AUTO SEQ 26- 24